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**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 05/20/2014

Reviewed on 05/20/2014

### 1 Identification

- **Product identifier**
- **Trade name:** TETRA POND AQUASAFE
- **Article number:** 16267-07
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
United Pet Group, Inc  
3001 Commerce Street  
Blacksburg, VA 24060-6671  
USA
- **Information department:** For information call: 800-342-3449
- **Emergency telephone number:** Chemtrec: 800-424-9300

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



Eye Irrit. 2A H319 Causes serious eye irritation.

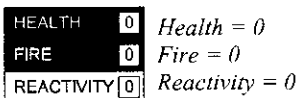
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labeled due to the calculation procedure of international guidelines.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations according to directives on hazardous materials.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2014

Reviewed on 05/20/2014

Trade name: **TETRA POND AQUASAFE**

(Contd. of page 1)

· <b>Dangerous components:</b>		
7772-98-7	Sodium Thiosulphate	10-<20%
7447-40-7	Potassium Chloride	1-≤2.5%

## 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

USA

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2014

Reviewed on 05/20/2014

Trade name: TETRA POND AQUASAFE

(Contd. of page 2)

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

- |  |   |
|--|---|
| · <b>Information on basic physical and chemical properties</b> |   |
| · <b>General Information</b>                                   |   |
| · <b>Appearance:</b>   |   |
| · <b>Form:</b>   | Liquid  |
| · <b>Color:</b>  | According to product specification            |
| · <b>Odor:</b>   | Characteristic                                |
| · <b>Odour threshold:</b>                                      | Not determined.                               |
| · <b>pH-value at 20 °C (68 °F):</b>                            | 9   |
| · <b>Change in condition</b>                                   |   |
| · <b>Melting point/Melting range:</b>                          | Undetermined.                                 |
| · <b>Boiling point/Boiling range:</b>                          | Undetermined.                                 |
| · <b>Flash point:</b>  | Not applicable.                               |
| · <b>Flammability (solid, gaseous):</b>                        | Not applicable.                               |
| · <b>Ignition temperature:</b>                                 |   |
| · <b>Decomposition temperature:</b>                            | Not determined.                               |
| · <b>Auto igniting:</b>  | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                                  | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                                     |   |
| · <b>Lower:</b>  | Not determined.                               |

(Contd. on page 4)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2014

Reviewed on 05/20/2014

Trade name: TETRA POND AQUASAFE

(Contd. of page 3)

Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	1.19 g/cm <sup>3</sup> (9.931 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.1 %
Water:	77.7 %
VOC content:	0.1 %
Solids content:	7.2 %
Other information	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>	
9003-39-8 Polyvinylpyrrolidone	3
· <b>NTP (National Toxicology Program)</b>	
None of the ingredients is listed.	

USA

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2014

Reviewed on 05/20/2014

Trade name: TETRA POND AQUASAFE

(Contd. of page 4)

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |   |                 |
|---|-----------------|
| · <b>UN-Number</b>  |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>UN proper shipping name</b>  |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>  | Void            |
| · <b>Packing group</b>  |                 |
| · <b>DOT, ADR, IMDG, IATA</b>   | Void            |
| · <b>Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>  | No              |
| · <b>Special precautions for user</b>   | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | -               |

USA

(Contd. on page 6)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2014

Reviewed on 05/20/2014

Trade name: TETRA POND AQUASAFE

(Contd. of page 5)

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Product safety department.

· Contact: Dr. Schobert

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

# Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

## 1 Identification

- **Product identifier**
- **Trade name: Thrift Drain Cleaner**
- **CAS Number:**  
1310-73-2
- **EC number:**  
215-185-5
- **Index number:**  
011-002-00-6
- **Application of the substance / the mixture** Industrial uses.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
JR2D, Inc.  
3435 St. Hwy 146 S.  
Livingston, TX 77351  
Phone: (936) 327-5723
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## 2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05

- **Signal word** Danger

- **Hazard-determining components of labeling:**

sodium hydroxide

- **Hazard statements**

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P280                   Wear protective gloves / eye protection.  
 P264                   Wash thoroughly after handling.  
 P260                   Do not breathe dust.

(Contd. on page 2)



## Safety Data Sheet acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

**Trade name: Thrift Drain Cleaner**

(Contd. of page 1)

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

- **WHMIS-symbols:**

E - Corrosive material



- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 1

- **HMIS-ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 1

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Description**

1310-73-2 sodium hydroxide

- **Identification number(s)**

- **EC number:** 215-185-5

- **Index number:** 011-002-00-6

### 4 First-aid measures

- **Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

(Contd. on page 3)

## Safety Data Sheet acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 2)

In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After skin contact:**

Brush off loose particles from skin.  
Immediately remove any clothing soiled by the product.  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.  
Seek immediate medical help for blistering or open wounds.

- **After eye contact:**

Protect unharmed eye.  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Do not remove contact lenses if worn.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed**

Strong caustic effect on skin and mucous membranes.

Gastric or intestinal disorders

Coughing

- **Danger**

Danger of gastric perforation.  
Danger of severe eye injury.

- **Indication of any immediate medical attention and special treatment needed**

If necessary oxygen respiration treatment.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** No further relevant information available.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Avoid formation of dust.  
Product forms slippery surface when combined with water.  
Ensure adequate ventilation.
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)

## Safety Data Sheet

### acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 3)

- **Methods and material for containment and cleaning up:**

- Pick up mechanically.
- Send for recovery or disposal in suitable receptacles.
- Clean the affected area carefully; suitable cleaners are:
  - Warm water
- Dispose contaminated material as waste according to item 13.

- **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**

- Prevent formation of dust.
- Any deposit of dust which cannot be avoided must be regularly removed.
- Use only in well ventilated areas.

- **Information about protection against explosions and fires:** The product is not flammable.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

- Protect from humidity and water.
- Avoid storage near extreme heat, ignition sources or open flame.
- Unsuitable material for receptacle: steel.
- Unsuitable material for receptacle: glass or ceramic.
- Unsuitable material for receptacle: aluminium.

- **Information about storage in one common storage facility:**

- Store away from foodstuffs.
- Do not store together with acids.

- **Further information about storage conditions:**

- This product is hygroscopic.
- Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**1310-73-2 sodium hydroxide**

PEL (USA)	Long-term value: 2 mg/m <sup>3</sup>
REL (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV (USA)	Ceiling limit value: 2 mg/m <sup>3</sup>
EL (Canada)	Short-term value: C 2 mg/m <sup>3</sup>

(Contd. on page 5)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 4)

LMPE (Mexico)	Short-term value: 2 mg/m <sup>3</sup> P
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

For spills, respiratory protection may be advisable.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Nitrile rubber, NBR

PVC gloves

Natural rubber, NR

· **Not suitable are gloves made of the following materials: PVA gloves**

· **Eye protection:**

Contact lenses should not be worn.



Safety glasses

Face protection

· **Body protection:** Alkaline resistant protective clothing

· **Limitation and supervision of exposure into the environment**

No further relevant information available.

(Contd. on page 6)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 5)

### 9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Flakes
  - Color: White
- Odor: Odorless
- Odor threshold: Not determined.
- pH-value: 13.8
- Change in condition
  - Melting point/Melting range: 606 °F / 319 °C (1123 °F / 606 °F)
  - Boiling point/Boiling range: 2534 °F / 1390 °C (4593 °F / 2534 °F)
- Flash point: Not applicable.
- Flammability (solid, gaseous): Product is not flammable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Auto igniting: Not determined.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapor pressure at 739 °C (1362 °F): 0.1333 KPa
- Density at 25 °C (77 °F): 2.13 g/cm<sup>3</sup> (17.775 lbs/gal)
- Relative density: Not determined.
- Vapour density: Not applicable.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with
  - Water: Soluble.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- Other information: No further relevant information available.

(Contd. on page 7)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 6)

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
Stable at ambient temperature.
- **Possibility of hazardous reactions**  
Corrosive action on metals.  
Diluting or dissolving in water always causes rapid heating.  
Strong exothermic reaction with acids.  
Reacts with fats and oils.  
Reacts with humid air.  
Reacts with carbon dioxide.  
Attacks materials containing glass and silicate.
- **Conditions to avoid** Moisture.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Possible in traces.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
- |   |                       |
|---|-----------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |                       |
| <b>1310-73-2 sodium hydroxide</b>                             |                       |
| Oral  | LD50 2000 mg/kg (rat) |
- **Primary irritant effect:**
  - **on the skin:** Strong caustic effect on skin and mucous membranes.
  - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Corrosive
  - **Carcinogenic categories**
- |  |
|--|
| · <b>NTP (National Toxicology Program)</b> |
| Substance is not listed.                   |
- |  |
|--|
| · <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b> |
| Substance is not listed.   |

(Contd. on page 8)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 7)

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability**  
Inorganic product, is not eliminable from water by means of biological cleaning processes.
- **Bioaccumulative potential** Does not accumulate in organisms
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** After neutralization toxicity cannot be recognized anymore.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1823

(Contd. on page 9)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 8)

- **UN proper shipping name**



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1.0 kg (2.2 lb).

- **DOT** Sodium hydroxide, solid
- **ADR** 1823 SODIUM HYDROXIDE, SOLID
- **IMDG, IATA** SODIUM HYDROXIDE, SOLID
- **Transport hazard class(es)**

- **DOT**



- **Class** 8 Corrosive substances.
- **Label** 8

---

- **ADR**



- **Class** 8 (C6) Corrosive substances
- **Label** 8

---

- **IMDG, IATA**



- **Class** 8 Corrosive substances.
- **Label** 8
- **Packing group**
- **DOT, ADR, IMDG, IATA** II
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Corrosive substances
- **Danger code (Kemler):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** Alkalis
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN1823, Sodium hydroxide, solid, 8, II

(Contd. on page 10)



## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

Trade name: Thrift Drain Cleaner

(Contd. of page 9)

### 15 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

- **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- **TSCA (Toxic Substances Control Act):**

Substance is listed.

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

Substance is not listed.

- **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

- **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

Substance is not listed.

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

- **State Right to Know Listings**

Substance is not listed.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

Substance is listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

Substance is not listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

Substance is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 11)

## Safety Data Sheet

acc. to HCS and GHS

Printing date 06/20/2014

Reviewed on 06/20/2014

**Trade name: Thrift Drain Cleaner**

(Contd. of page 10)

### 16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 06/20/2014 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

· **Sources**

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)

# SAFETY DATA SHEET



Date of issue/Date of revision 10 May 2017

Version 1.01

## Section 1. Identification

**Product name** : PPG83-310 PPG TIMELESS INTERIOR EGGSHELL - PURE WHITE  
**Product code** : 00392823  
**Other means of identification** : Not available.  
**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.  
**Use of the substance/mixture** : Coating.  
**Uses advised against** : Not applicable.

**Manufacturer** : PPG Industries, Inc.  
One PPG Place  
Pittsburgh, PA 15272  
**Emergency telephone number** : (412) 434-4515 (U.S.)  
(514) 645-1320 (Canada)  
01-800-00-21-400 (Mexico)

**Technical Phone Number** : 1-800-441-9695 (8:00 am to 5:00 pm EST)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : CARCINOGENICITY - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 30.7%

### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Suspected of causing cancer.

**Precautionary statements**

## Section 2. Hazards identification

<b>Prevention</b>	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.
<b>Response</b>	: IF exposed or concerned: Get medical attention. Photosensitive agents : In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes. In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: Sanding and grinding dusts may be harmful if inhaled. Emits toxic fumes when heated.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Product name</b>	: PPG83-310 PPG TIMELESS INTERIOR EGGSHELL - PURE WHITE

Ingredient name	%	CAS number
titanium dioxide	≥20 - ≤50	13463-67-7
benzophenone	<1.0	119-61-9

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

<b>Eye contact</b>	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
<b>Inhalation</b>	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
<b>Skin contact</b>	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

## Section 4. First aid measures

In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.

**Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** : If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

## Section 7. Handling and storage

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
titanium dioxide	<b>OSHA PEL (United States, 6/2016).</b> TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>ACGIH TLV (United States, 3/2016).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
benzophenone	None.

#### Key to abbreviations

A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
F = Fume	STEL = Short term Exposure limit values
IPEL = Internal Permissible Exposure Limit	TD = Total dust
OSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value
R = Respirable	TWA = Time Weighted Average
Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances	

### Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

## Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety glasses with side shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : polyethylene
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : White.
- Odor** : Alcohol-like.
- Odor threshold** : Not available.
- pH** : 9
- Melting point** : Not available.
- Boiling point** : 100°C (212°F)
- Flash point** : Closed cup: Not applicable. [Product does not sustain combustion.]
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Evaporation rate** : 0.05 (butyl acetate = 1)
- Vapor pressure** : 3.3 kPa (25 mm Hg) [room temperature]
- Vapor density** : Not available.
- Relative density** : 1.4



## Section 9. Physical and chemical properties

Density ( lbs / gal )	: 11.68
Solubility	: Soluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
Volatility	: 55% (v/v), 39.367% (w/w)
% Solid. (w/w)	: 60.633

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
benzophenone	LD50 Dermal	Rabbit	3.535 g/kg	-
	LD50 Oral	Rat	>10 g/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Eyes** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

#### Sensitization

##### Conclusion/Summary

**Skin** : There are no data available on the mixture itself.

**Respiratory** : There are no data available on the mixture itself.

## Section 11. Toxicological information

### Mutagenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
benzophenone	-	2B	-

**Carcinogen Classification code:**

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Teratogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	Category
benzophenone	Category 2

**Target organs** : Contains material which may cause damage to the following organs: upper respiratory tract.

### Aspiration hazard

Not available.

## Information on the likely routes of exposure

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

**Conclusion/Summary** : There are no data available on the mixture itself. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. If splashed in the eyes, the liquid may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Short term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Long term exposure

**Potential immediate effects** : There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

### Potential chronic health effects

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
benzophenone	3.18	12.02	low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

	DOT	IMDG	IATA
<b>UN number</b>	Not regulated.	UN3082	UN3082
<b>UN proper shipping name</b>	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pyrithione zinc)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pyrithione zinc)
<b>Transport hazard class (es)</b>	-	9	9
<b>Packing group</b>	-	III	III
<b>Environmental hazards</b>	No.	Yes.	Yes.
<b>Marine pollutant substances</b>	Not applicable.	(pyrithione zinc)	Not applicable.

### Additional information

**DOT** : None identified.

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

### United States

**United States inventory (TSCA 8b)** : All components are listed or exempted.

**United States - TSCA 5(e) - Substances consent order:**

partially fluorinated alcohol, reaction products Listed

**United States - TSCA 5(a)2 - Proposed significant new use rules:**

partially fluorinated alcohol, reaction products Listed

### SARA 302/304

**SARA 304 RQ** : Not applicable.

### Composition/information on ingredients

No products were found.

### SARA 311/312

**Classification** : Delayed (chronic) health hazard

### Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
titanium dioxide	No.	No.	No.	No.	Yes.
benzophenone	Yes.	No.	No.	No.	Yes.

**Additional environmental information** is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

**Health** : 1 \* **Flammability** : 0 **Physical hazards** : 0

(\* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)

**Health** : 1 **Flammability** : 0 **Instability** : 0

**Date of previous issue** : 4/11/2017

**Organization that prepared the MSDS** : EHS

## Section 16. Other information

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

✔ Indicates information that has changed from previously issued version.

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 822.00

Revision Date: March 25, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Tin

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word N/A

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Tin	7440-31-5	Sn	118.69	

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Rinse with water.

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid. Finely divided metal may be combustible.

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

**SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.  
Exposure guidelines: PEL/TLV 2 mg/m<sup>3</sup> (OSHA/ACGIH)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Silver-white, ductile solid. Forms: granular, mossy, shot, and foil. Boiling point: 2507 °C  
Odorless. Melting point: 232 °C  
Soluble: Acids and hot potassium hydroxide solution. Insoluble in water. Specific gravity: 7.310

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, sulfur, strong bases, halogens.  
Shelf life: Indefinite, if stored properly.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: N.A. ORL-RAT LD<sub>50</sub>: N.A.  
Chronic effects: N.A. IHL-RAT LC<sub>50</sub>: N.A.  
Target organs: N.A. SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

**SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #27a is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-141-8), RCRA code D001.

**SECTION 16 — OTHER INFORMATION**

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

Revision Date: March 25, 2014



# Franklin International

## Safety Data Sheet

Titebond Original Wood Glue

### Section 1. Identification

**GHS product identifier** : Titebond Original Wood Glue  
**Other means of identification** : None known.  
**Product type** : Liquid.  
**Address** : Franklin International  
2020 Bruck Street  
Columbus OH 43207  
**Contact person** : Franklin Technical Services  
**Telephone** : (800) 877-4583  
**In case of emergency** : Franklin Security  
(614) 445-1300  
**Reference number** : 2213  
**Product code** : 5065  
**Date of revision** : 7/31/2015.  
**Print date** : 7/31/2015.  
**Chemtrec (24 Hour)** : (800) 424 - 9300  
**Chemtrec International** : (703) 527 - 3887  
**Chemical family** : Adhesive.

#### Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Industrial use wood glue.  
Wide dispersive use of substances in professional and DIY adhesives.

### Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.  
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5.7%

**GHS label elements**

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Hazards not otherwise classified** : None known.

### Section 3. Composition/information on ingredients

#### Hazardous ingredients

##### United States

Name	CAS number	%
No hazardous ingredient		

##### Canada

Name	CAS number	%
No hazardous ingredient		

##### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
No hazardous ingredient								

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

### Section 4. First aid measures

#### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Section 4. First aid measures

- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 4.444 to 32.222°C (40 to 90°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

##### Occupational exposure limits

Ingredient name	Exposure limits
No exposure limit value known.	

#### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
No exposure limit value known.											

#### Mexico

##### Occupational exposure limits

Ingredient	Exposure limits
No exposure limit value known.	

Consult local authorities for acceptable exposure limits.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Yellow.
- Odor** : Faint odor.
- Odor threshold** : Not available.
- pH** : 3.8 to 4.7
- Melting point** : Not available.
- Boiling point** : 98.889°C (210°F)
- Flash point** : Closed cup: Not applicable.
- Evaporation rate** : <1 (butyl acetate = 1)
- VOC (less water, less exempt solvents)** : 10.7 g/l
- Relative density** : 1.1

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Inhalation.  
Routes of entry not anticipated: Dermal.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

## Section 12. Ecological information

### Toxicity

**Conclusion/Summary** : Not available.

### Persistence and degradability

Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

	<b>DOT Classification</b>	<b>TDG Classification</b>	<b>Mexico Classification</b>	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	No.	No.
<b>Additional information</b>	-	-	-	-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

**Section 15. Regulatory information**

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**SARA 302/304****Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Not applicable.

**Composition/information on ingredients**

No products were found.

**State regulations**

**Massachusetts** : None of the components are listed.

## Section 15. Regulatory information

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

### California Prop. 65

Not available.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Not applicable.				

### Canada

#### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Mexico

**Classification** :



### International regulations

**International lists** :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory**: Not determined.
- Korea inventory**: Not determined.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan inventory (CSNN)**: Not determined.

**Europe** : Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed



## Section 16. Other information

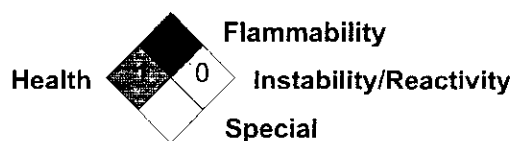
### Hazardous Material Information System (U.S.A.)

Health	1
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

Date of printing : 7/31/2015.  
 Date of issue/Date of revision : 7/31/2015.  
 Date of previous issue : 6/2/2015.  
 Version : 4.2

Key to abbreviations : ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 UN = United Nations

References : Not available.

[?] Indicates information that has changed from previously issued version.

### Notice to reader

## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Close this window

MSDS

**Common Name:** TOUGH GUY CHEWING GUM & CANDLE WAX REMOVER

**Manufacturer:** W.W. GRAINGER

**MSDS Revision Date:** 8/30/2007

**Grainger Item Number(s):** 2DCB9

**Manufacturer Model Number(s):**

**MSDS Table of Contents**

Click the desired link below to jump directly to that section in the MSDS.

- [SECTION 1: COMPANY IDENTIFICATION](#)
- [SECTION 2: INGREDIENTS/IDENTITY INFORMATION](#)
- [SECTION 3: HAZARDS IDENTIFICATION](#)
- [SECTION 4: EMERGENCY AND FIRST AID PROCEDURES](#)
- [SECTION 5: FIRE FIGHTING MEASURES](#)
- [SECTION 6: ACCIDENTAL RELEASE MEASURES](#)
- [SECTION 7: HANDLING AND STORAGE](#)
- [SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION](#)
- [SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES](#)
- [SECTION 10: STABILITY AND REACTIVITY](#)
- [SECTION 11: TOXICOLOGICAL INFORMATION](#)
- [SECTION 12: ECOLOGICAL INFORMATION](#)
- [SECTION 13: DISPOSAL CONSIDERATION](#)
- [SECTION 14: TRANSPORT INFORMATION](#)
- [SECTION 15: REGULATORY INFORMATION](#)
- [SECTION 16: ADDITIONAL INFORMATION](#)

MATERIAL SAFETY DATA SHEET

HMS (R\*) :

HEALTH	1
FLAMMABILITY	4
REACTIVITY	0
PERSONAL PROTECTION	A

IDENTITY: TOUGH GUY CHEWING GUM & CANDLE WAX REMOVER

PART NUMBER: 2DCB9

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

**SECTION 1: COMPANY IDENTIFICATION**



MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):  
100 GRAINGER PARKWAY  
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

## SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ISOBUTANE	75-28-5	800 PPM	800 PPM		60 - 100%
PROPANE	74-98-6	1000 PPM	ASPHYXIAN		15 - 40%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

## SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES  
 INHALATION?: YES  
 SKIN?: YES  
 INGESTION?: NO

ACUTE HEALTH HAZARDS:

DANGER. EXTREMELY FLAMMABLE LIQUID AND VAPOR. CAUSES EYE AND SKIN BURNS (FROSTBITE OR THERMAL TYPE). MAY BE HARMFUL IF INHALED. ASPHYXIATION HAZARD DUE TO POTENTIAL FOR DISPLACING OXYGEN. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS. CONTENTS UNDER PRESSURE.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE  
 OSHA: NO  
 NTP: NO  
 IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

COLD OR FREEZING SENSATION ON SKIN OR IN EYES. DISORIENTATION, LACK OF COORDINATION, EXCITATION, HEADACHE, NAUSEA IF INHALED.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE AFFECTED. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THIS HAZARD.

## SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



EYES:

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

INGESTION:

UNLIKELY AS THIS PRODUCT IS A GAS AT ROOM TEMPERATURE AND PRESSURE.

INHALATION:

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

## SKIN:

FLUSH OR IMMERSE AREA(S) IN LUKEWARM WATER. IF SKIN IS NOT BURNED OR FROZEN, KEEP WARM AND STIMULATE CIRCULATION WITH MASSAGE. GET MEDICAL ATTENTION.

**SECTION 5: FIRE FIGHTING MEASURES**

USA FLAME PROJECTION TEST (ASTM D-3065):  
GREATER THAN 24", FLASHBACK: EXTREMELY FLAMMABLE

FLAMMABLE LIMITS: NO DATA  
LEL: NO DATA  
UEL: NO DATA

## EXTINGUISHING MEDIA:

USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, FOG OR WATER SPRAY. USE WATER SPRAY TO KEEP CONTAINERS COOL. CONTAINS AN EXTREMELY FLAMMABLE GAS.

## SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: OXIDES OF CARBON

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. EXTREMELY FLAMMABLE CONTENTS. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW LYING AREAS. VAPORS ARE EASILY IGNITED BY PILOT LIGHTS, FLAME, SPARKS, STATIC ELECTRICITY, ELECTRICAL MOTORS, SWITCHES, ETC.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

## SMALL SPILL:

NOT LIKELY AS MATERIAL IS A GAS AT ATMOSPHERIC PRESSURE AND ROOM TEMPERATURE.

## LARGE SPILL:

DANGER, EXTREMELY FLAMMABLE GAS. ISOLATE TRAFFIC AND VENTILATE AREA. ELIMINATE ALL IGNITION SOURCES. WEAR PROTECTIVE GEAR AS NECESSARY.

**SECTION 7: HANDLING AND STORAGE**

## HANDLING:

DO NOT USE NEAR IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, ETC. DIRECT SPRAY AWAY FROM FACE. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT SMOKE WHILE USING. USE WITH ADEQUATE VENTILATION. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS.

## STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

## EYE PROTECTION:

YES IF DIRECT CONTACT IS POSSIBLE WEAR APPROVED GOGGLES OR SAFETY GLASSES (ANSI Z87).

SKIN PROTECTION:  
NOT USUALLY NECESSARY. ONLY IF DIRECT CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:  
NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA  
APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:  
VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF  
OVEREXPOSURE.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**



APPEARANCE AND ODOR: CLEAR COLORLESS ODORLESS GAS IN AN AEROSOL CAN.

pH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.570

BOILING POINT: -44 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): >1

PRESSURE (PSIG. @ 70 DEG. F): 60 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: SLIGHT

VOLATILE ORGANIC COMPOUNDS (VOC'S):  
543 GRAMS PER LITER OR 100% BY WEIGHT VOC'S.

**SECTION 10: STABILITY AND REACTIVITY**



HAZARDOUS POLYMERIZATION:  
THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: OXIDES OF CARBON.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS

**SECTION 11: TOXICOLOGICAL INFORMATION**



NO DATA

**SECTION 12: ECOLOGICAL INFORMATION**



NO DATA

**SECTION 13: DISPOSAL CONSIDERATION**



DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS (D001) WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

**SECTION 14: TRANSPORT INFORMATION**



DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION:  
COMPRESSED GAS, FLAMMABLE, N.O.S. (ISOBUTANE, PROPANE)

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1954

PACKING GROUP: NONE

WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION:  
COMPRESSED GAS, FLAMMABLE, N.O.S. (ISOBUTANE, PROPANE)

HAZARD CLASS: 2

IDENTIFICATION NUMBER: UN 1954

PACKING GROUP: NONE

AIR TRANSPORTATION (CARGO AIR CRAFT ONLY):

PROPER SHIPPING DESCRIPTION:  
COMPRESSED GAS, FLAMMABLE, N.O.S. (ISOBUTANE, PROPANE)

HAZARD CLASS: 2.1

IDENTIFICATION NUMBER: UN 1954

PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

**SECTION 15: REGULATORY INFORMATION**



US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:  
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

**SECTION 16: ADDITIONAL INFORMATION**



DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.



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MSDS

**Common Name:** TOUGH GUY CITRUS STAINLESS STEEL CLEANER**Manufacturer:** W.W. GRAINGER**MSDS Revision Date:** 8/30/2007**Grainger Item Number(s):** 2DBY2**Manufacturer Model Number(s):****MSDS Table of Contents**

Click the desired link below to jump directly to that section in the MSDS.

[SECTION 1: COMPANY IDENTIFICATION](#)[SECTION 2: INGREDIENTS/IDENTITY INFORMATION](#)[SECTION 3: HAZARDS IDENTIFICATION](#)[SECTION 4: EMERGENCY AND FIRST AID PROCEDURES](#)[SECTION 5: FIRE FIGHTING MEASURES](#)[SECTION 6: ACCIDENTAL RELEASE MEASURES](#)[SECTION 7: HANDLING AND STORAGE](#)[SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION](#)[SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES](#)[SECTION 10: STABILITY AND REACTIVITY](#)[SECTION 11: TOXICOLOGICAL INFORMATION](#)[SECTION 12: ECOLOGICAL INFORMATION](#)[SECTION 13: DISPOSAL CONSIDERATION](#)[SECTION 14: TRANSPORT INFORMATION](#)[SECTION 15: REGULATORY INFORMATION](#)[SECTION 16: ADDITIONAL INFORMATION](#)

## MATERIAL SAFETY DATA SHEET

## HMIS (R\*):

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	A

IDENTITY: TOUGH GUY CITRUS STAINLESS STEEL CLEANER

PART NUMBER: 2DBY2

## NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

**SECTION 1: COMPANY IDENTIFICATION**

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):

100 GRAINGER PARKWAY  
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635



TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

## SECTION 2: INGREDIENTS/IDENTITY INFORMATION



COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
WATER	7732-18-5	NONE	NONE		60 - 100%
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (MIST)	64742-48-9	5 MG/M3	5 MG/M3		10 - 30%
ISOBUTANE	75-28-5	800 PPM	800 PPM		5 - 10%
MINERAL OIL (MIST)	8042-47-5	5 MG/M3	5 MG/M3		3 - 7%
PROPANE	74-98-6	1000 PPM	ASPHYXIANT		1 - 5%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

## SECTION 3: HAZARDS IDENTIFICATION



ROUTE(S) OF ENTRY:

EYES?: YES  
 INHALATION?: YES  
 SKIN?: NO  
 INGESTION?: YES

ACUTE HEALTH HAZARDS:

CAUTION. ASPIRATION HAZARD. MAY BE HARMFUL OR FATAL IF SWALLOWED. CONTAINS PETROLEUM DISTILLATES. MAY CAUSE EYE AND SKIN IRRITATION. MAY BE HARMFUL IF INHALED. CENTRAL NERVOUS SYSTEM EFFECTS IF USED WITHOUT ADEQUATE VENTILATION. USE GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS. CONTENTS UNDER PRESSURE.

CHRONIC HEALTH HAZARDS:

MAY CAUSE CNS EFFECTS UPON PROLONGED OR REPEATED OVEREXPOSURE.

CARCINOGENICITY:

CHEMICAL: NONE  
 OSHA: NO  
 NTP: NO  
 IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

RED, BURNING, IRRITATED EYES. CRACKED OR DRIED SKIN. DIZZINESS, DROWSINESS, NAUSEA, OR LOSS OF COORDINATION. IRRITATION OF NOSE AND THROAT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING LUNG OR SKIN DISORDERS. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THESE HAZARDS.

## SECTION 4: EMERGENCY AND FIRST AID PROCEDURES



**EYES:**

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. GET IMMEDIATE MEDICAL ATTENTION.

**INGESTION:**

DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

**INHALATION:**

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

**SKIN:**

WASH WITH SOAP AND WATER. IF IRRITATION ARISES AND PERSISTS SEEK MEDICAL ATTENTION.

**SECTION 5: FIRE FIGHTING MEASURES**

USA FLAME PROJECTION TEST (ASTM D-3065): 0" - NON-FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

EXTINGUISHING MEDIA:

TREAT AS AN OIL FIRE. USE CARBON DIOXIDE, DRY CHEMICAL, FOAM.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION:

CARBON MONOXIDE, CARBON DIOXIDE, SMOKE AND SOOT.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. COMBUSTIBLE CONTENTS MAY FLOAT ON WATER.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

SMALL SPILL:

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

LARGE SPILL:

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

**SECTION 7: HANDLING AND STORAGE**

HANDLING:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. AVOID INHALING MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DIRECT SPRAY AWAY FROM FACE. DO NOT SWALLOW.

STORAGE:

STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS,

OPEN FLAME, AND DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL INSTRUCTIONS CAREFULLY. REPLACE CAP WHEN NOT IN USE.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**



EYE PROTECTION: YES, APPROVED SAFETY GLASSES OR GOGGLES (ANSI Z87).

SKIN PROTECTION:  
NOT USUALLY NECESSARY. ONLY IF PROLONGED CONTACT IS POSSIBLE.

RESPIRATORY PROTECTIONS:  
NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:  
VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**



APPEARANCE AND ODOR:  
WHITE OPAQUE LOTION-LIKE LIQUID WITH A CITRUS SCENT IN AN AEROSOL CAN.

pH: N/A

SPECIFIC GRAVITY (70 DEG. F): 0.935

BOILING POINT: 212 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 55 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: MISCIBLE

VOLATILE ORGANIC COMPOUNDS (VOCS):  
232 GRAMS PER LITER OR 27% BY WEIGHT VOCS

### **SECTION 10: STABILITY AND REACTIVITY**



HAZARDOUS POLYMERIZATION:  
THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:  
CARBON MONOXIDE, CARBON DIOXIDE, SMOKE AND SOOT.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):  
STRONG ACIDS AND ALKALIS, OXIDIZERS, AND SELECTED AMINES.

### **SECTION 11: TOXICOLOGICAL INFORMATION**



NO DATA

**SECTION 12: ECOLOGICAL INFORMATION** 

NO DATA

**SECTION 13: DISPOSAL CONSIDERATION** 

## DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

## RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

**SECTION 14: TRANSPORT INFORMATION** 

## DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY  
HAZARD CLASS: ORM-D  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE

## WATER TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS  
HAZARD CLASS: 2  
IDENTIFICATION NUMBER: UN 1950  
PACKING GROUP: NONE

## AIR TRANSPORTATION:

PROPER SHIPPING DESCRIPTION: AEROSOLS, NON-FLAMMABLE  
HAZARD CLASS: 2.2  
IDENTIFICATION NUMBER: UN 1950  
PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

**SECTION 15: REGULATORY INFORMATION** 

## US FEDERAL REGULATIONS:

## TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

## STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

**SECTION 16: ADDITIONAL INFORMATION** 

DATE PREPARED: 08/30/07

## WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.



**Common Name:** TOUGH GUY STAINLESS STEEL CLEANER & POLISH

**Manufacturer:** W.W. GRAINGER

**MSDS Revision Date:** 8/30/2007

**Grainger Item Number(s):** 2DBY3

**Manufacturer Model Number(s):**

**MSDS Table of Contents**

- SECTION 1: COMPANY IDENTIFICATION
- SECTION 2: INGREDIENTS/IDENTITY INFORMATION
- SECTION 3: HAZARDS IDENTIFICATION
- SECTION 4: EMERGENCY AND FIRST AID PROCEDURES
- SECTION 5: FIRE FIGHTING MEASURES
- SECTION 6: ACCIDENTAL RELEASE MEASURES
- SECTION 7: HANDLING AND STORAGE
- SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION
- SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
- SECTION 10: STABILITY AND REACTIVITY
- SECTION 11: TOXICOLOGICAL INFORMATION
- SECTION 12: ECOLOGICAL INFORMATION
- SECTION 13: DISPOSAL CONSIDERATION
- SECTION 14: TRANSPORT INFORMATION
- SECTION 15: REGULATORY INFORMATION
- SECTION 16: ADDITIONAL INFORMATION

**MATERIAL SAFETY DATA SHEET**

**HMIS (R\*) :**

HEALTH 1  
FLAMMABILITY 2  
REACTIVITY 0  
PERSONAL PROTECTION B

**IDENTITY:** TOUGH GUY STAINLESS STEEL CLEANER & POLISH

**PART NUMBER:** 2DBY3

**NOTE:**

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

**SECTION 1: COMPANY IDENTIFICATION**

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):  
100 GRAINGER PARKWAY  
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

## SECTION 2: INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH- TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
ISOPARAFFINIC HYDROCARBON (MIST)	64742-47-8	5 MG/M3	5 MG/M3		60 - 100%
WHITE MINERAL OIL (MIST)	8042-47-5	5 MG/M3	5 MG/M3		15 - 40%
PROPANE	74-98-6	1000 PPM	ASPHYXIANT		5 - 10%

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

## SECTION 3: HAZARDS IDENTIFICATION

ROUTE(S) OF ENTRY:

EYES?: YES  
INHALATION?: YES  
SKIN?: YES  
INGESTION?: YES

ACUTE HEALTH HAZARDS:

CAUTION. COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE EYE AND SKIN IRRITATION. CAUSES IRRITATION OF THE DIGESTIVE TRACT. INHALING EXCESSIVE CONCENTRATION OF VAPORS MAY CAUSE HEADACHES, STUPOR, IRRITATION OF THROAT AND EYES, AND KIDNEY EFFECTS. CONTENTS UNDER PRESSURE. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN USING THIS PRODUCT.

CHRONIC HEALTH HAZARDS: NONE KNOWN

CARCINOGENICITY:

CHEMICAL: NONE  
OSHA: NO  
NTP: NO  
IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

REDNESS, TEARING OR IRRITATION OF EYES. DROWSINESS, DIZZINESS, NAUSEA,



LOSS OF COORDINATION AND FATIGUE. DRYING AND CRACKING OF SKIN. THROAT IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
PRE-EXISTING SKIN, LUNG, OR STOMACH DISORDERS.

#### **SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

**EYES:**

FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

**INGESTION:**

NOT A LIKELY EXPOSURE ROUTE. IF A LARGE QUANTITY OF LIQUID IS SWALLOWED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

**INHALATION:**

IF OVEREXPOSED MOVE INTO FRESH AIR. IF SYMPTOMS DEVELOP SEEK MEDICAL ATTENTION.

**SKIN:**

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES.

#### **SECTION 5: FIRE FIGHTING MEASURES**

USA FLAME PROJECTION TEST (ASTM D-3065): 12", NO FLASHBACK, FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

**EXTINGUISHING MEDIA:**

TREAT AS AN OIL FIRE. USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM. WATER MAY CAUSE FIRE TO SPREAD.

**SPECIAL FIRE FIGHTING PROCEDURES:**

USE WATER SPRAY TO KEEP CONTAINERS COOL AND VAPORS DOWN. DO NOT ALLOW RUNOFF TO ENTER SEWERS OR PUBLIC WATERCOURSES. WEAR SELF-CONTAINED BREATHING APPARATUS IN CHEMICAL FIRES.

HAZARDOUS PRODUCTS OF COMBUSTION: CARBON MONOXIDE, CARBON DIOXIDE.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:**

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

**LARGE SPILL:**

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT

MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

## SECTION 7: HANDLING AND STORAGE

### HANDLING:

DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. DO NOT INHALE MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. DIRECT SPRAY AWAY FROM FACE. USE WITH ADEQUATE VENTILATION. DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, AND OPEN FLAME, ETC. CONTENTS UNDER PRESSURE. DO NOT INCINERATE OR SPRAY INTO OPEN FLAME.

### STORAGE:

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A DRY LOCATION. STORE AWAY FROM HEAT, AND OPEN FLAME. DO NOT PUNCTURE CONTAINER. DO NOT STORE AT TEMPERATURES EXCEEDING 120 DEG. F. REPLACE CAP WHEN NOT IN USE.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: YES, APPROVED SAFETY GLASSES OR GOGGLES (ANSI Z87).

SKIN PROTECTION: YES, IF NEEDED TO PREVENT DIRECT CONTACT.

### RESPIRATORY PROTECTIONS:

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

### ENGINEERING CONTROLS:

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE AND ODOR:

CLEAR COLORLESS LIQUID WITH A LEMON SCENT IN AN AEROSOL CAN.

DH: NOT APPLICABLE

SPECIFIC GRAVITY (70 DEG. F): 0.800

BOILING POINT: 420 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1): NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 50 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: NEGLIGIBLE

VOLATILE ORGANIC COMPOUNDS (VOCS):  
77 GRAMS PER LITER OR 9.9% BY WEIGHT VOCS

**SECTION 10: STABILITY AND REACTIVITY**

HAZARDOUS POLYMERIZATION:  
THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS, ALKALIS AND OXIDIZERS.

**SECTION 11: TOXICOLOGICAL INFORMATION**

NO DATA

**SECTION 12: ECOLOGICAL INFORMATION**

NO DATA

**SECTION 13: DISPOSAL CONSIDERATION**

DISPOSAL METHOD:  
DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION  
IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

**SECTION 14: TRANSPORT INFORMATION**

DOT INFORMATION - 49 CFR 172.101:  
PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY  
HAZARD CLASS: ORM-D  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE

WATER TRANSPORTATION:  
PROPER SHIPPING DESCRIPTION: AEROSOLS  
HAZARD CLASS: 2  
IDENTIFICATION NUMBER: UN 1950  
PACKING GROUP: NONE

AIR TRANSPORTATION:  
PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE

HAZARD CLASS: 2.1  
IDENTIFICATION NUMBER: UN 1950  
PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

#### **SECTION 15: REGULATORY INFORMATION**

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:  
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED  
ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A): NONE LISTED

SARA 313 COMPONENTS - 40 CFR 372.65: NONE

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: NONE

#### **SECTION 16: ADDITIONAL INFORMATION**

DATE PREPARED: 08/30/07

**WARNING!**

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER;  
THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS  
OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH  
DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL  
RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS  
SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS  
ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH  
PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR  
IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY  
PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT.  
THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF  
THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR  
BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE  
PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE  
FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL  
OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER  
INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

902430

# SAFETY DATA SHEET

8/26/2015

## SECTION I - IDENTIFICATION

### Material Name

TRIARCO TRI-CRYLIC GEL MEDIUM

### Company Information

Handy Art, Inc.  
365 Sunnyside Drive  
Milton, WI 53563  
Phone: 1-800-868-8873  
Fax: 1-800-868-8233  
Email: handyart@handyart.com

For emergencies call: 800-868-8873

For health emergencies call the Poison Control Center: 1-800-222-1222

## SECTION II - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

There are no GHS label elements.

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: NONE EXPECTED

CARCINOGEN LISTING: NTP: NO IARC: NO OSHA: NO

SEE SECTION III FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: NONE

## SECTION III - COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS/EC #</u>	<u>PEL/TLV (MG/M#)</u>	<u>Max % Weight</u>	<u>NTP</u>	<u>IARC</u>
None					

## SECTION IV - FIRST AID MEASURES

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

## SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): N/A  
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED  
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED  
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

## SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: Clean up in accordance with all applicable regulations. Absorb spillage with non-combustible, absorbent material. For waste disposal, see Section XIII

## SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Good industrial hygiene practice requires that exposure be maintained below the TLV. This is preferably achieved through the provision of adequate ventilation. When exposure cannot be adequately controlled in this way, personal respiratory protection should be employed.

## SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED  
OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED  
WORK/HYGIENE PRACTICES: NONE REQUIRED  
ENGINEERING CONTROLS: NONE REQUIRED

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A  
VAPOR PRESSURE: N/A  
SPECIFIC VAPOR DENSITY (AIR=1): N/A  
SOLUBILITY IN WATER: N/A

MELTING POINT: N/A  
SPECIFIC GRAVITY: N/A  
REACTIVITY IN WATER: NON-REACTIVE

## SECTION X - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE  
STABILITY: STABLE CONDITIONS TO AVOID: NONE  
INCOMPATIBILITY (MATERIALS TO AVOID): NONE  
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

## SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS ASSOCIATED WITH USE OF THIS MATERIAL: NONE EXPECTED  
The summated LD50 is >50000 mg/kg.  
The summated LC50 is 99999 mg/cubic meter.  
This product is not considered to be a known or suspected human carcinogen by NTP, IARC or OSHA (see section III)

## SECTION XII - ECOLOGICAL INFORMATION

NO HARMFUL EFFECTS KNOWN OTHER THAN THOSE ASSOCIATED WITH SUSPENDED INERT SOLIDS IN WATER.

## SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS (40 CFR 261): THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE.  
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT (49 CFR 172.101): THIS IS NOT A HAZARDOUS MATERIAL AS CLASSIFIED BY CFR 172.101.

## SECTION XV - REGULATORY INFORMATION

CONTENTS OF THIS SDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200  
EPA SARA TITLE III CHEMICAL LISTINGS  
NONE

SECTION 302.4 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):  
NONE

SECTION 313 TOXIC CHEMICALS (40 CFR 372):  
NONE

### INTERNATIONAL REGULATIONS

CANADIAN WHMIS: THIS PRODUCT IS A CONTROLLED PRODUCT UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. IT CONTAINS THE FOLLOWING TOXIC OR HIGHLY TOXIC MATERIALS:  
PROPYLENE GLYCOL

### SUPPLEMENTAL STATE COMPLIANCE INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED UNDER NEW JERSEY'S RIGHT TO KNOW PROGRAM:  
PROPYLENE GLYCOL

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) REQUIRING NOTIFICATION TO THE STATE OF WASHINGTON UNDER THEIR CHILDREN'S SAFE PRODUCTS ACT:  
NONYL PHENOL ETHOXYLATE

Under CPSC's consumer product regulations (16CFR1500.3 and 150014), this product has the following required acute and chronic hazard labeling:

NONE

## SECTION XVI - OTHER INFORMATION

LAST REVISION DATE: 08/26/2015

**Prepared by Duke OEM Toxicology**

## Triple-D® Universal Coil Cleaner

### SECTION 1. IDENTIFICATION

**PRODUCT IDENTIFIER:**

TRIPLE-D-GRAN

**OTHER MEANS OF IDENTIFICATION:**

TRIPLE-D-GRAN

**RECOMMENDED USE OF THE CHEMICAL:**

Please see label for instruction

**RESTRICTIONS ON USE:**

None known

**MANUFACTURED BY:**

DiversiTech Corporation  
3039 Premiere Parkway  
Suite 600  
Duluth, GA 30097

**INFORMATION PHONE #:**

1 800.995.2222

**EMERGENCY PHONE #:**

1 800.255.3924 Chem-Tel  
(Chemical Emergencies)

### SECTION 2. HAZARD IDENTIFICATION

**CLASSIFICATION OF THE CHEMICAL:**

Eye Damage, category 1

Skin Irritation, category 2

**HAZARD SYMBOL(S):**



**SIGNAL WORD:** Danger

**HAZARD STATEMENT(S)**

H315 Causes skin irritation

H318 Causes serious eye damage.

**PRECAUTIONARY STATEMENT(S)**

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear eye protection and protective gloves.

P321 Specific treatment (see FIRST AID section on this label).

**RESPONSE**

P302+352

IF ON SKIN: Wash with plenty of water.

P332+313

If skin irritation occurs: Get medical advice.

P362+364

Take off contaminated clothing and wash it before reuse.

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a poison control center.

**HAZARD(S) NOT OTHERWISE CLASSIFIED:**

None known

0% of the chemical consists of ingredient(s) of unknown acute toxicity.

**NOTE:**

Labeling elements found on this SDS may be different from labeling elements found on the label. Safety Data Sheets are regulated by OSHA (29 CFR §1910.1200) while the actual product and its label may be regulated by a different government agency. Please contact the responsible party in Section 1 if you have any questions.



# Triple-D<sup>®</sup> Universal Coil Cleaner

## SECTION 3. INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	COMPOSITION, wt%	GHS CLASSIFICATION(S)
Sodium Metasilicate	6834-92-0	20-40%	Eye Dam. 1; Skin Irrit. 2
Potassium Carbonate	584-08-7	20-40%	Eye Irrit. 2; Skin Irrit. 2

### TRADE SECRET CLAIM:

When applicable, the specific concentration of each hazardous ingredient is considered a TRADE SECRET. Chemical names and identifiers will be listed in exact composition weight and name when not subject to trade secret exemptions.

### NOTE:

This product may contain other ingredients that are not required to be disclosed on this safety data sheet or product label in accordance with 19 CFR §1910.1200. Any ingredient not listed on either the SDS or label is not considered hazardous to health and shouldn't pose a risk to the user.

## SECTION 4. FIRST AID MEASURES

### GENERAL FIRST AID MEASURES:

If medical attention is required due to exposure then be sure to take product label or safety data sheet when seeking medical care.

### MOST IMPORTANT SYMPTOMS:

None known.

### IF INHALED:

Move person to fresh air and keep at a comfortable position for breathing. Administer artificial respiration if person is not breathing.

### IF ON SKIN:

Wash with soap and water. Take off contaminated clothing and wash it before reuse.

### IF IN EYES:

Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### IF SWALLOWED:

Do NOT induce vomiting unless instructed to do so by a trained medical professional. Rinse mouth with water.

### INDICATION OF IMMEDIATE MEDICAL ATTENTION:

Seek immediate medical attention if chemical is exposed to eyes.

## SECTION 5. FIRE-FIGHTING MEASURES

### SUITABLE EXTINGUISHING MEDIA:

Water spray, carbon dioxide, sand, powder extinguisher, dry chemical.

### UNSUITABLE EXTINGUISHING MEDIA:

None known.

### SPECIFIC HAZARDS:

None known.

### HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide, and nitrogen oxides.

### SPECIAL PROTECTIVE EQUIPMENT:

Not determined.

### PRECAUTIONS FOR FIRE-FIGHTERS:

Not determined.

# Triple-D<sup>®</sup> Universal Coil Cleaner

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:**

Remove non-emergency personnel from the area in an orderly fashion.

**EMERGENCY PROCEDURE(S):**

Cover drains to prevent spill from entering waterways. Evacuate non-emergency personnel from the area. Shut off all sources of ignition.

**REFERENCES:**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

**PROTECTIVE EQUIPMENT:**

Use appropriate chemical-resistant gloves and eye protection.

**METHODS FOR CONTAINMENT:**

Cover drains and ventilate area to prevent vapor build-up.

**METHODS FOR CLEAN UP:**

For small spills, wipe with an absorbent material. For large spills, dilute with water or neutralize with diluted acid.

## SECTION 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:**

Keep away from all ignition sources. Do not smoke while handling.

**STORAGE INCOMPATIBILITIES:**

Aluminum

**CONDITIONS FOR SAFE STORAGE:**

Keep cool in a well-ventilated place away from sunlight. Ensure local and adequate ventilation. Keep container tightly sealed in its original container.

## SECTION 8. EXPOSURE CONTROLS

**INGREDIENT**

Sodium Metasilicate  
Potassium Carbonate

**CAS No.**

6834-92-0  
584-08-7

**OSHA PEL**

2mg/m<sup>3</sup>  
n/a

**NIOSH**

2mg/m<sup>3</sup>  
n/a

**ACGIH**

2mg/m<sup>3</sup>  
n/a

**GENERAL NOTE:**

Practice good industrial hygiene. Wash hands after handling and use.

**APPROPRIATE ENGINEERING CONTROLS:**

Ensure mechanical ventilation.

**EYE/FACE PROTECTION:**

Eye protection is recommended. Wear goggles or another form of chemically resistant eye protection.

**SKIN PROTECTION:**

Wear gloves made of rubber, neoprene, or nitrile. Appropriate aprons are recommended to prevent exposure from splash back.

**RESPIRATORY PROTECTION:**

No anticipated protective equipment is required.

**ENVIRONMENTAL PROTECTION:**

No anticipated protective equipment is required.

# Triple-D<sup>®</sup> Universal Coil Cleaner

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Granular orange solid.	ODOR:	Not determined.
pH:	Not applicable.	ODOR THRESHOLD:	Not determined.
MELTING POINT:	Not determined.	BOILING POINT:	Not determined.
FLASHPOINT:	Not determined.	EVAPORATION RATE:	Not determined.
FLAMMABILITY:	Not determined.	UPPER EXPLOSIVE %:	Not determined.
VAPOR PRESSURE:	Not determined.	LOWER EXPLOSIVE %:	Not determined.
VAPOR DENSITY:	Not determined.	RELATIVE DENSITY:	1.13
SOLUBILITY:	Water miscible.	PARTITION COEFFICIENT:	Not determined.
AUTO-IGNITION:	Not determined.	DECOMPOSITION TEMP:	Not determined.
VISCOSITY:	Not determined.		

## SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: Not anticipated to be reactive.	CHEMICAL STABILITY: Chemical is anticipated to be stable in normal storage conditions.
HAZARDOUS REACTIONS: None known.	CONDITIONS TO AVOID: Heat, sources of ignition, direct sunlight, etc.
INCOMPATIBLE MATERIALS: Strong oxidizers, acids, and formaldehydes.	HAZARDOUS DECOMPOSITION PRODUCTS: None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY ESTIMATES: Oral – Contains no ingredient(s) considered toxic. Dermal – Contains no ingredient(s) considered toxic. Inhalation – Contains no ingredient(s) considered toxic.	SKIN CORROSION/IRRITATION: Contains an ingredient known to cause skin irritation.
SENSITIZATION: Respiratory: Contains no ingredient(s) applicable to this category. Skin: Contains no ingredient(s) applicable to this category.	EYE DAMAGE/IRRITATION: Contains ingredients known to cause permanent eye damage.
REPRODUCTIVE TOXICITY: Contains no ingredient(s) applicable to this category.	GERM CELL MUTAGENICITY: Contains no ingredient(s) applicable to this category.
ASPIRATION HAZARD: Contains no ingredient(s) applicable to this category.	CARCINOGENICITY: Contains no ingredient(s) applicable to this category.
	SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: Contains an ingredient which may cause respiratory irritation.
	SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: Contains no ingredient(s) applicable to this category.

## Triple-D® Universal Coil Cleaner

SYMPTOMS RELATED TO CHARACTERISTICS:  
Not determined.

DELAYED AND IMMEDIATE EFFECT FROM SHORT-  
AND LONG-TERM EXPOSURE::  
Not determined.

NATIONAL TOXICOLOGY PROGRAM LISTING:  
No ingredients listed.

INTERNATIONAL AGENCY FOR REACH ON CANCER  
LISTING:  
No ingredients listed.

### SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:  
Algae – Contains no ingredient(s) considered toxic.  
Fish – Contains no ingredient(s) considered toxic.  
Crustacea – Contains no ingredient(s) considered toxic.

PERSISTENCE AND DEGRADABILITY:  
Not determined.

BIOACCUMULATIVE POTENTIAL:  
Not determined.

MOBILITY IN SOIL:  
Not determined.

OTHER ADVERSE EFFECTS:  
None known.

### SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL OF EMPTY CONTAINERS:  
Please recycle container with a licensed recycling company.

DISPOSAL OF FULL OR PARTIALLY FULL CONTAINERS:  
Dispose in accordance with all local regulations. Contact a licensed waste management company for questions on disposal procedures.

### SECTION 14. TRANSPORT INFORMATION

HAZARD PLACARD:



UN NUMBER: UN3262  
LTD QTY: <5 kg

UN PROPER SHIPPING NAME: Corrosive solid, basic,  
inorganic, n.o.s.

HAZARD CLASS: 8  
PACKAGING GROUP: III  
ENVIRONMENTAL HAZARD: No.  
TRANSPORT IN BULK: Not determined.  
SPECIAL PRECAUTIONS: Do not ship with  
excessive weight on  
top. Keep in original  
containers.

# Triple-D<sup>®</sup> Universal Coil Cleaner

## SECTION 15. REGULATORY INFORMATION

**SARA:**

311 – No applicable ingredient(s).

312 – No applicable ingredient(s).

313 – No applicable ingredient(s).

**TSCA INVENTORY LIST:**

Each ingredient is on the TSCA inventory list as ACTIVE.

**HMIS<sup>®</sup>III: (higher numbers indicate higher risk)**

Health, 2

Flammability, 0

Physical Hazard, 0

**RIGHT-TO-KNOW:**

Sodium metasilicate, potassium carbonate.

**CALIFORNIA:**

Prop 65: No ingredient(s) listed.

ARB Designation: Single purpose cleaner.

VOC Limit: Not determined

**NFPA<sup>®</sup>: (higher numbers indicate higher risk)**

Health, 2

Flammability, 0

Instability, 0

## SECTION 16. OTHER INFORMATION

**REVISION: 2**

REVISION DATE: October 26, 2020

**REVISION PURPOSE:**

Revision based on the new data in relation to formula.

**GENERAL DISCLAIMER:**

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

# SAFETY DATA SHEET

Product Number 642

Issuing Date No data available

Revision Date 05/29/15

Revision Number 2



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name TSP Trisodium Phosphate

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use General Purpose Cleaner - Non-aerosol

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Name Sunnyside Corporation  
Supplier Address 225 Carpenter Avenue  
Wheeling  
IL  
60090  
US  
Supplier Phone Number Phone:8003238611  
Fax:8475419043  
Supplier Email sscontact@sunnysidecorp.com  
Emergency telephone number Chem Trec 8004249300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

### GHS Label elements, including precautionary statements



**Emergency Overview****Signal word****Warning****Hazard Statements**

Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation

**Appearance** White**Physical State** Granular Solid**Odor** Very slight**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

No information available

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
TSP Trisodium Phosphate	7601-549	60 - 100	

### 4. FIRST AID MEASURES

#### First aid measures

#### General Advice

Show this safety data sheet to the doctor in attendance.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. If symptoms persist, call a physician.

#### Skin Contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

#### Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and Effects** Burning sensation.

#### Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

Treat symptomatically.



## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

No information available.

**Uniform Fire Code**

Irritant: Solid

### Hazardous Combustion Products

Carbon oxides.

### Explosion Data

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### Environmental Precautions

#### **Environmental Precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** None required for consumer use. If there is a risk of contact: Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Granular Solid	<b>Odor</b>	Very slight
<b>Appearance</b>	White Crystalline Solid	<b>Odor Threshold</b>	No information available
<b>Color</b>	White		
<b><u>Property</u></b>		<b><u>Values</u></b>	
pH	No data available	<b><u>Remarks/ Method</u></b>	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	



Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Appreciable	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing Properties	No data available	

**Other Information**

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

**10. STABILITY AND REACTIVITY**

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

Strong acids. Strong oxidizing agents. Strong bases.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.



**Eye Contact** Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.

**Skin Contact** Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
TSP Trisodium Phosphate	> 2000 mg/kg ( Rat )	> 2 mg/kg ( Rabbit )	> 2.16 mg/L ( Rat ) 1 h

**Information on toxicological effects**

**Symptoms** Erythema (skin redness). May cause redness and tearing of the eyes.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied.

**Target Organ Effects** Respiratory system. Eyes. Skin.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document  
 Not applicable

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**California Hazardous Waste Codes** 181

**14. TRANSPORT INFORMATION**

**DOT**  
Proper Shipping Name  
Hazard Class

NOT REGULATED  
NON REGULATED  
N/A

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA**  
Proper Shipping Name  
Hazard Class

Not regulated  
NON REGULATED  
N/A

**IMDG/IMO**  
Hazard Class

Not regulated  
N/A

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated



**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Complies  
 DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
 Chronic Health Hazard No  
 Fire Hazard No  
 Sudden release of pressure hazard No  
 Reactive Hazard No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TSP Trisodium Phosphate	5000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
TSP Trisodium Phosphate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
TSP Trisodium Phosphate	X	X	X	X	

**International Regulations**

Canada  
 WHMIS Hazard Class  
 D2B - Toxic materials





**16. OTHER INFORMATION**

NFPA	Health Hazards 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 2	Flammability 0	Physical Hazard 0	Personal Protection X

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Revision Date** 08-Nov-2013

**Revision Note** No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**





## Safety Data Sheet

### TYPE 1

Safety Data Sheet dated: 7/28/2015 - version 3

Date of first edition: 5/22/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: TYPE 1

### Recommended use of the chemical and restrictions on use

Recommended use: Adhesive

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION

### Classification of the chemical

#### Classification of the chemical

No specific hazards are encountered under normal product use.

### Label elements

Code	Description
P202	Do not handle until all safety precautions have been read and understood.
P261.B	Avoid breathing dust.
P264.2	Wash skin thoroughly after handling.
P280.I	Wear protective gloves and eye protection.
P501.A	Dispose of contents/container in accordance with applicable regulations.

### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity	Name	Ident. Numb.	Classification
0.1-1 %	Silica Sand	CAS:14808-60-7	Carc. 1A, H350.A; STOT RE 1, H372.A

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of Skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.



In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

N.A.

**Indication of any immediate medical attention and special treatment needed**

---

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

---

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour	Note
Silica Sand	ACGIH			0.025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A.

**Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: Paste white

Odour: Slightly latex like

Odour threshold: N.A.

pH: 8.50

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: >93,3 °C (199,9 °F)

Evaporation rate: Same as water

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: N.A.

Solubility in water: Dispersible

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

---

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

Silica Sand	a) acute toxicity	LD50 Oral Rat = 500mg/kg
Petroleum distillate	a) acute toxicity	LD50 Skin Rabbit > 2000mg/kg LC50 Inhalation Rat = 4,60000mg/l 4h

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

**Substance(s) listed on the IARC Monographs:**

Silica Sand Group 1

**Substance(s) listed as OSHA Carcinogen(s):**

Silica Sand

**Substance(s) listed as NIOSH Carcinogen(s):**

Silica Sand

**Substance(s) listed on the NTP report on Carcinogens:**

Silica Sand

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of components with eco-toxicological properties**

Quantity	Component	Ident. Numb.	Ecotox infos
0.1-1 %	Silica Sand	CAS: 14808-60-7	LC50 a) Aquatic acute toxicity carp> 10000,00000mg/L 72h

### Persistence and degradability

N.A.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Other adverse effects

N.A.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

## 14. TRANSPORT INFORMATION

### UN number

ADR-UN number: N/A

DOT-UN Number: N/A

IATA-Un number: N/A

IMDG-Un number: N/A

### UN proper shipping name

ADR-Shipping Name: N/A

DOT-Proper Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

### Transport hazard class(es)

ADR-Class: N/A

DOT-Hazard Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

**Packing group**

ADR-Packing Group: N/A

DOT-Packing group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT-Label(s): N/A

DOT-Symbol: N/A

DOT-Cargo Aircraft: N/A

DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A

DOT-Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR-Hazard identification number: N/A

ADR-Tunnel Restriction Code: N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subrisk: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subrisk: N/A

IMDG-Special Provisions: N/A

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: N/A

IMDG-MFAG: N/A

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**15. REGULATORY INFORMATION**

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

Silica Sand is listed in TSCA Section 8b

**SARA - Superfund Amendments and Reauthorization Act**

**Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act**

**Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act**

**CAA listed substances:**

no substances listed

**CWA - Clean Water Act**

**CWA listed substances:**

no substances listed

**USA - State specific regulations**

**California Proposition 65**

**Substance(s) listed under California Proposition 65:**

Silica Sand Listed as carcinogen

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

Silica Sand

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

Silica Sand

**New Jersey Right to know**

**Substance(s) listed under New Jersey Right to know:**

Silica Sand

**16. OTHER INFORMATION**

Code	Description
H350.A	May cause cancer if inhaled.
H372.A	Causes damage to organs through prolonged or repeated exposure if inhaled.

Safety Data Sheet dated: 7/28/2015 - version 3

Product code: 4187

**Additional classification information**



- HMIS Health: 1 = Slight
- HMIS Health - Is health hazard chronic?: Yes
- HMIS Flammability: 1 = Combustible if heated
- HMIS Reactivity: 0 = Minimal
- HMIS P.P.E.: Safety glasses, gloves
- NFPA Health: 1 = Slight
- NFPA Flammability: 1 = Combustible if heated
- NFPA Reactivity: 0 = Minimal
- NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
IMDG: International Maritime Code for Dangerous Goods.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
CLP: Classification, Labeling, Packaging.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
INCI: International Nomenclature of Cosmetic Ingredients.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
DNEL: Derived No Effect Level.  
PNEC: Predicted No Effect Concentration.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
WGK: German Water Hazard Class.  
KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION