# U

Issuing Date 09-Dec-2015

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Revision Number 3



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

Product identifier

**Product Name** 

**UHU White Glue Stic** 

Other means of identification

Synonyms

None

Recommended use of the chemical and restrictions on use

Recommended Use

Glue sticks

Uses advised against

No information available

Details of the supplier of the safety data sheet

Supplier Name

Saunders Mfg. Co., Inc.

Supplier Address

65 Nickerson Hill Road

Readfield Maine 04355 US

Supplier Phone Number

Phone:2076853385 Fax:2076859918

Supplier Email

marketing@saunders-usa.com

Emergency telephone number

**Company Emergency Phone** 

2076853385

Number

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance White

Physical state Solid

Odor Characteristic

**Precautionary Statements - Prevention** 

None

Precautionary Statements - Response

None

**Precautionary Statements - Storage** 

None

**Precautionary Statements - Disposal** 

None

Hazards not otherwise classified (HNOC)

Not applicable

**Unknown Toxicity** 

29.44 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

May cause slight eye irritation

#### **Interactions with Other Chemicals**

No information available.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
Third Party Formulation (TP # 1297486)	Trade Secret	7 - 13	*
Third Party Formulation (TP # 1297486)	Trade Secret	1 - 5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

#### First aid measures

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a



physician.

Skin contact

Wash with soap and water.

Inhalation

Remove to fresh air.

Ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an

unconscious person.

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

Most Important Symptoms and

No information available.

**Effects** 

#### 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.

#### **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 eyes.

**Environmental precautions** 

**Environmental precautions** 

Refer to protective measures listed in Sections 7 and 8.

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.

Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed.

Incompatible Products

None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Third Party Formulation (TP # 1297486)	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m³ mist, total particulate TWA: 5 mg/m³ mist, respirable fraction (vacated) TWA: 10 mg/m³ mist, total particulate (vacated) TWA: 5 mg/m³ mist, respirable fraction	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

#### Appropriate engineering controls

**Engineering Measures** 

Showers



Eyewash stations Ventilation systems

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

Eye/face protection

No special protective equipment required.

Skin and body protection

No special protective equipment required.

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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical state Appearance Color

Solid White

No information available

Odor Odor Threshold

None known

Remarks Method

Characteristic

No information available

Property **Values** 

pН Melting / freezing point Boiling point / boiling range Flash Point

**Evaporation Rate** Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit

Lower flammability limit Vapor pressure

Vapor density **Specific Gravity** Water Solubility Solubility in other solvents Partition coefficient: n-octanol/waterNo data available

Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties

Oxidizing properties

Other Information

Softening Point VOC Content (%) Particle Size

Particle Size Distribution

No data available No data available No data available No data available

No data available No data available

No data available No data available No data available No data available No data available Soluble in water

No data available No data available No data available No data available

No data available No data available No data available

No data available

No data available

No data available

None known None known None known None known

None known None known None known None known



#### 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

None known based on information supplied.

#### **Hazardous Decomposition Products**

Carbon oxides.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

Inhalation

Specific test data for the substance or mixture is not available.

Eye contact

Specific test data for the substance or mixture is not available.

Skin contact

Specific test data for the substance or mixture is not available.

Ingestion

Specific test data for the substance or mixture is not available.

#### **Component Information**

Chemical name	al name Oral LD50 Dermal LD50		Inhalation LC50	
Third Party Formulation (TP # 1297486)	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat)1 h	

#### Information on toxicological effects

**Symptoms** 

No information available.

#### 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.

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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** 

None known.

**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.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Third Party Formulation (TP # 1297486)		96h LC50: 51 - 57 mL/L (Oncorhynchus mykiss)		24h EC50: > 500 mg/L

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

Chemical name	Log Pow
Third Party Formulation (TP # 1297486)	-1.76

#### Other adverse effects

No information available.



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#### 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 con

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 281

#### 14. TRANSPORT INFORMATION

**DOT** NOT REGULATED

Proper Shipping Name NON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

#### 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complia

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

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### 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
Third Party Formulation (TP # 1297486)		Х	X		
Third Party Formulation (TP # 1297486)	Х	X	Х		·

#### International Regulations

#### Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Third Party Formulation (TP # 1297486)	-	10mg/m³ (mist) TWA
(7-13)		_ ` ` ′

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

#### WHMIS Hazard Class

Not determined

	16. OTHER INFORMATION					
NFPA	Health Hazards	1	Flammability	0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards	1	Flammability	0	Physical Hazard 0	Personal Protection X



Revision Date 09-Dec-2015

Prepared By

Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date Revision Date Revision Note 09-Dec-2015 09-Dec-2015

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**

Revision Date: 12-Feb-2021 Revision Number: 1

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ULTRA SPEC 500 INTERIOR - EGGSHELL BASE 2

Product Code T5382X
Alternate Product Code T5382X

Product Class Water thinned paint

Color All Recommended use Paint

Restrictions on use No information available

Manufacturer Emergency Telephone

Benjamin Moore & Co. CHEMTREC: +1 703-741-5970 / 1-800-424-9300 101 Paragon Drive +1 703-527-3887 (outside US & Canada)

Montvale, NJ 07645 Phone: 1-866-708-9180 www.benjaminmoore.com

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance liquid Odor little or no odor

#### Hazards not otherwise classified (HNOC)

Not applicable

## Other information

No information available

WARNING: This product contains isothiazolinone compounds at levels of <0.1%. These substances are biocides commonly found in most paints and a variety of personal care products as a preservative. Certain individuals may be sensitive or allergic to these substances, even at low levels.

#### 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
Titanium dioxide	13463-67-7	10 - 15
Limestone	1317-65-3	5 - 10
Nepheline syenite	37244-96-5	1 - 5

#### 4. FIRST AID MEASURES

**General Advice** No hazards which require special first aid measures.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Clean mouth with water and afterwards drink plenty of water. Consult a physician

if necessary.

**Most Important** Symptoms/Effects None known.

**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.

As in any fire, wear self-contained breathing apparatus Protective equipment and precautions for firefighters

pressure-demand, MSHA/NIOSH (approved or equivalent)

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and full protective gear.

Closed containers may rupture if exposed to fire or Specific Hazards Arising From The Chemical

extreme heat.

Sensitivity to mechanical impact No

Sensitivity to static discharge No

**Flash Point Data** 

Flash point (°F) Not applicable Flash Point (°C) Not applicable Not applicable Method

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#### Flammability Limits In Air

Lower flammability limit:

Upper flammability limit:

Not applicable
Not applicable

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

#### NFPA Legend

0 - Not Hazardous

- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**Other Information** Prevent further leakage or spillage if safe to do so.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods for Cleaning Up Soak up with inert absorbent material. Sweep up and shovel into suitable

containers for disposal.

#### 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or

sanding dust. In case of insufficient ventilation, wear suitable respiratory

equipment.

**Storage** Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials No information available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	15 mg/m³ - TWA
Limestone	N/E	15 mg/m³ - TWA
		5 mg/m³ - TWA

#### Leaend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

\_\_\_\_\_

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Engineering Measures Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**Eye/Face Protection** Safety glasses with side-shields.

**Skin Protection** Protective gloves and impervious clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and wash contaminated

clothing before re-use. Wash thoroughly after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

**Odor** little or no odor

Odor Threshold No information available

 Density (lbs/gal)
 10.3 - 10.4

 Specific Gravity
 1.23 - 1.25

pH No information available
Viscosity (cps) No information available
Solubility(ies) No information available
Water solubility No information available
Evaporation Rate No information available
Vapor pressure No information available
Vapor density No information available

 Vapor density
 No info

 Wt. % Solids
 40 - 50

 Vol. % Solids
 30 - 40

 Wt. % Volatiles
 50 - 60

 Vol. % Volatiles
 60 - 70

 VOC Regulatory Limit (g/L)
 0

 Boiling Point (°F)
 212

Boiling Point (°F) 212
Boiling Point (°C) 100
Freezing point (°F) 32
Freezing Point (°C) 0
Flash point (°F) Not applicable

Flash point (°F)

Flash Point (°C)

Method

Flammability (solid, gas)

Upper flammability limit:

Not applicable

Not applicable

Not applicable

Upper flammability limit:

Lower flammability limit:

Autoignition Temperature (°F)

Not applicable
Not applicable
Not applicable
No information

Autoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°F)No information availableDecomposition Temperature (°C)No information availablePartition coefficientNo information available

#### 10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Chemical Stability Stable under normal conditions.

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Conditions to avoid Prevent from freezing.

**Incompatible Materials**No materials to be especially mentioned.

Hazardous Decomposition Products

None under normal use.

Possibility of hazardous reactions None under normal conditions of use.

#### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

#### Information on likely routes of exposure

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

**Acute Toxicity** 

Product Information No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available

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

**Eye contact** May cause slight irritation.

**Skin contact** Substance may cause slight skin irritation. Prolonged or repeated contact may dry

skin and cause irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

No information available Sensitization No information available. **Neurological Effects** No information available. Mutagenic Effects No information available. Reproductive Effects **Developmental Effects** No information available. Target organ effects No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. No information available. Other adverse effects No information available **Aspiration Hazard** 

#### Numerical measures of toxicity

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 85406 mg/kg

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	> 10000 mg/kg(Rat)	-	-

#### **Chronic Toxicity**

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#### Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

Chemical name	IARC	NTP	OSHA
	2B - Possible Human		Listed
Titanium dioxide	Carcinogen		

• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

#### Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

#### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity Effects**

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

#### **Product Information**

#### **Acute Toxicity to Fish**

No information available

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

#### Persistence / Degradability

No information available.

#### **Bioaccumulation**

There is no data for this product.

#### Mobility in Environmental Media

No information available.

#### Ozone

No information available

#### **Component Information**

#### **Acute Toxicity to Fish**

#### Titanium dioxide

LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with federal, state, and local regulations. Local

requirements may vary, consult your sanitation department or state-designated

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environmental protection agency for more disposal options.

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

#### 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA: United States**Yes - All components are listed or exempt.
Yes - All components are listed or exempt.

#### Federal Regulations

### SARA 311/312 hazardous categorization

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

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

None

.

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## **US State Regulations**

#### **California Proposition 65**

MARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
Titanium dioxide	X	X	X
Limestone	X	X	X

#### Legend

X - Listed

#### 16. OTHER INFORMATION

PPE: -HMIS -Health: 1 Flammability: 0 Reactivity: 0

#### **HMIS Legend**

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- \* Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Product Stewardship Department Prepared By

> Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554

**Revision Date:** 12-Feb-2021 Not available **Revision Summary** 

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#### Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**End of Safety Data Sheet** 

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## SAFETY DATA SHEET

Revision Date: 04-Jan-2019 Revision Number: 4

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ULTRA SPEC 500 INTERIOR FLAT BASE 4

Product Code N5364X
Alternate Product Code N5364X

Product Class WATER THINNED PAINT

Color All Recommended use Paint

Restrictions on use No information available

Manufacturer Emergency Telephone

Benjamin Moore & Co. CHEMTREC (US): 800-424-9300

Montvale, NJ 07645 Phone: 1-866-708-9180 www.benjaminmoore.com

101 Paragon Drive

CHEMTREC (outside US): (703)-527-3887

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance liquid Odor little or no odor

#### Hazards not otherwise classified (HNOC)

Not applicable

## Other information

No information available

#### 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
Limestone	1317-65-3	25 - 30
Diatomaceous earth	61790-53-2	1 - 5

#### 4. FIRST AID MEASURES

**General Advice** No hazards which require special first aid measures.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician

if necessary.

Most Important Symptoms/Effects None known.

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.

**Protective Equipment And Precautions For** 

**Firefighters** 

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

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and full protective gear.

Specific Hazards Arising From The Chemical Closed containers may rupture if exposed to fire or

extreme heat.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge No

**Flash Point Data** 

Flash Point (°F)

Flash Point (°C)

Method

Not applicable

Not applicable

Flammability Limits In Air

Lower flammability limit:

Upper flammability limit:

Not applicable

Not applicable

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

#### NFPA Legend

0 - Not Hazardous

- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**Other Information** Prevent further leakage or spillage if safe to do so.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods for Cleaning Up Soak up with inert absorbent material. Sweep up and shovel into suitable

containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or

sanding dust. In case of insufficient ventilation, wear suitable respiratory

equipment.

Storage Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials No information available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL
Limestone	N/E	15 mg/m <sup>3</sup> - TWA
		5 mg/m <sup>3</sup> - TWA
Diatomaceous earth	N/E	
		20 mppcf - TWA

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**Eye/Face Protection** Safety glasses with side-shields.

**Skin Protection** Protective gloves and impervious clothing.

**Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Hygiene Measures** 

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

Revision Date: 04-Jan-2019

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

liauid **Appearance** 

Odor little or no odor

**Odor Threshold** No information available

10.6 - 10.7 Density (lbs/gal) 1.27 - 1.29**Specific Gravity** 

Hq No information available

Viscosity (cps) No information available Solubility(ies) No information available Water solubility No information available No information available **Evaporation Rate** 

Vapor pressure @20 °C (kPa) No information available

Vapor density No information available 50 - 60

Wt. % Solids 40 - 50 Vol. % Solids Wt. % Volatiles 40 - 50 Vol. % Volatiles 50 - 60 VOC Regulatory Limit (g/L) 0

**Boiling Point (°F)** 212 100 **Boiling Point (°C)** Freezing Point (°F) 32 Freezing Point (°C)

Flash Point (°F) Not applicable Flash Point (°C) Not applicable Method Not applicable Not applicable Flammability (solid, gas)

Not applicable Upper flammability limit: Not applicable Lower flammability limit:

No information available Autoignition Temperature (°F) Autoignition Temperature (°C) No information available No information available Decomposition Temperature (°F) **Decomposition Temperature (°C)** No information available Partition coefficient No information available

#### 10. STABILITY AND REACTIVITY

Reactivity Not Applicable

**Chemical Stability** Stable under normal conditions.

Conditions to avoid Prevent from freezing.

**Incompatible Materials** No materials to be especially mentioned.

**Hazardous Decomposition Products** None under normal use.

None under normal conditions of use. Possibility of hazardous reactions

#### 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

Information on likely routes of exposure

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

**Acute Toxicity** 

Product Information No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available

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

**Eye contact** May cause slight irritation.

**Skin contact** Substance may cause slight skin irritation. Prolonged or repeated contact may dry

skin and cause irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

No information available Sensitization **Neurological Effects** No information available. No information available. **Mutagenic Effects** Reproductive Effects No information available. No information available. **Developmental Effects** Target organ effects No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. No information available. Other adverse effects No information available **Aspiration Hazard** 

#### Numerical measures of toxicity

#### Component Information

#### Carcinogenicity

There are no known carcinogenic chemicals in this product above reportable levels.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity Effects**

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

#### **Product Information**

#### **Acute Toxicity to Fish**

No information available

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

#### Persistence / Degradability

No information available.

#### **Bioaccumulation**

No information available.

#### Mobility in Environmental Media

No information available.

#### Ozone

No information available

#### **Component Information**

#### **Acute Toxicity to Fish**

No information available

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

#### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with federal, state, and local regulations. Local

requirements may vary, consult your sanitation department or state-designated

environmental protection agency for more disposal options.

#### 14. TRANSPORT INFORMATION

DOT Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

#### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA: United States** Yes - All components are listed or exempt.

**DSL: Canada** Yes - All components are listed or exempt.

### Federal Regulations

#### SARA 311/312 hazardous categorization

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

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

None

## **US State Regulations**

#### **California Proposition 65**



MARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
Limestone	X	X	X
Diatomaceous earth	-	X	

#### Legend

X - Listed

#### 16. OTHER INFORMATION

HMIS -Health: 1 Flammability: 0 Reactivity: 0 PPE: -

#### **HMIS Legend**

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- \* Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By Product Stewardship Department

> Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 800-225-5554

**Revision Date:** 04-Jan-2019 **Revision Summary** Not available

#### Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**END OF SAFETY DATA SHEET** 



## SAFETY DATA SHEET

Revision Date: 04-Nov-2016 Revision Number: 2

## AND THE PROPERTY OF THE PROPER

Product Name ULTRA SPEC 500 INTERIOR GLOSS FINISH BASE 1

Product Code S5401X
Alternate Product Code S5401X

Product Class WATER THINNED PAINT

Color All Recommended use Paint

Restrictions on use No information available

ManufacturerEmergency Telephone Number(s)Benjamin Moore & Co.CHEMTREC (US): 800-424-9300

101 Paragon Drive CHEMTREC (outside US): (703)-527-3887

Montvale, NJ 07645 CANUTEC: 613-996-6666 (CND)

Phone: 855-724-6802 www.benjaminmoore.com

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

#### Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Appearance liquid

Odor little or no odor

**Precautionary Statements - Response** 

Not Applicable

Hazards not otherwise classified (HNOC)

Not Applicable

Other information

No information available

#### Other hazards

General Advice

May cause allergic skin reaction

Chemical Name	CAS-No	Weight % (max)
Titanium dioxide	13463-67-7	10 - 30%
Nepheline syenite	37244-96-5	1 - 5%
Hexanedioic acid, dihydrazide	1071-93-8	0.1 - 0.25%

No hazards which require special first aid measures.

Rinse thoroughly with plenty of water for at least 15

Eye Contact minutes and consult a physician.

Wash off immediately with soap and plenty of water **Skin Contact** 

removing all contaminated clothes and shoes.

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Move to fresh air. If symptoms persist, call a physician. Inhalation

Clean mouth with water and afterwards drink plenty of Ingestion

water. Consult a physician if necessary.

May cause allergic skin reaction. Most Important Symptoms/Effects

Treat symptomatically. Notes To Physician

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

As in any fire, wear self-contained breathing apparatus **Protective Equipment And Precautions For Firefighters** 

pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

No

Closed containers may rupture if exposed to fire or Specific Hazards Arising From The Chemical

extreme heat.

No Sensitivity To Static Discharge

Flash Point Data

Not applicable Flash Point (°F) Not applicable Flash Point (°C) Not applicable Flash Point Method

Flammability Limits In Air

Sensitivity To Mechanical Impact

Not applicable **Lower Explosion Limit** Not applicable **Upper Explosion Limit** 

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

#### **NFPA Legend**

0 - Not Hazardous

- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

And the second s

Personal Precautions Avoid contact with skin, eyes and clothing. Ensure

adequate ventilation.

Other Information Prevent further leakage or spillage if safe to do so.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods For Clean-Up Soak up with inert absorbent material. Sweep up and

shovel into suitable containers for disposal.

Handling Avoid contact with skin, eyes and clothing. Avoid breathing

vapors, spray mists or sanding dust. In case of insufficient

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ventilation, wear suitable respiratory equipment.

Storage Keep container tightly closed. Keep out of the reach of

children.

Incompatible Materials No information available

#### **Exposure Limits**

No exposure limits have been established for this product.

Chemical Name	OSHA	ACGIH	Alberta	British	Ontario	Quebec
				Columbia		
Titanium dioxide	15 mg/m³ - TWA	10 mg/m <sup>3</sup> - TWA	10 mg/m³ -			
		-		3 mg/m³ - TWA	_	TWAEV
Nepheline syenite	N/E	N/E	N/E	N/E	10 mg/m³ - TWA	N/E

#### Legend

OSHA - Occupational Safety & Health Administration Exposure Limits

ACGIH - American Conference of Governmental Industrial Hygienists

Alberta - Alberta Occupational Exposure Limits

British Columbia - British Columbia Occupational Exposure Limits

Ontario - Ontario Occupational Exposure Limits

Quebec - Quebec Occupational Exposure Limits

N/E - Not Established

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin Protection Protective gloves and impervious clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory

equipment.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and

wash contaminated clothing before re-use. Wash

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thoroughly after handling.

# THE REPORT OF THE PROPERTY OF

Appearance liquid

**Odor** little or no odor

Odor Threshold No information available

 Density (lbs/gal)
 10.15 - 10.25

 Specific Gravity
 1.21 - 1.23

pHNo information availableViscosity (cps)No information availableSolubilityNo information availableWater SolubilityNo information available

Evaporation Rate
Vapor Pressure
Vapor Density

No information available
No information available
No information available

 Wt. % Solids
 45 - 55

 Vol. % Solids
 30 - 40

 Wt. % Volatiles
 45 - 55

 Vol. % Volatiles
 60 - 70

VOC Regulatory Limit (g/L)

Boiling Point (°F)

Boiling Point (°C)

Freezing Point (°F)

Freezing Point (°C)

0

Freezing Point (°C)

Flash Point (°F)

Flash Point (°C)

Flash Point (°C)

Flash Point Method

Flammability (solid, gas)

Upper Explosion Limit

O

Not applicable
Not applicable
Not applicable

Lower Explosion LimitNot applicableAutoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°C)No information availablePartition Coefficient (n-octanol/water)No information available

Reactivity Not Applicable

Chemical Stability Stable under normal conditions.

Conditions To Avoid Prevent from freezing.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products

None under normal use.

Possibility Of Hazardous Reactions None under normal conditions of use.

Revision Date: 04-Nov-2016

Product Information

Information on likely routes of exposure

**Principal Routes of Exposure** 

Eye contact, skin contact and inhalation.

Acute Toxicity

**Product Information** 

No information available

Information on toxicological effects

**Symptoms** 

No information available

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

Eye contact

Skin contact

May cause slight irritation

Substance may cause slight skin irritation. Prolonged or

repeated contact may dry skin and cause irritation.

Inhalation Ingestion

May cause irritation of respiratory tract. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

Sensitization:

May cause an allergic skin reaction.

No information available. **Neurological Effects** No information available. **Mutagenic Effects** No information available. Reproductive Effects No information available. **Developmental Effects** No information available. **Target Organ Effects** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.

Other adverse effects **Aspiration Hazard** 

No information available.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

57947 mg/kg

Component

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

**Chronic Toxicity** 

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

Chemical Name	IARC	NTP	OSHA Carcinogen
	2B - Possible Human		Listed
Titanium dioxide	Carcinogen		

Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Revision Date: 04-Nov-2016

#### Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

# OF FEBRUARY INFORMATION

#### **Ecotoxicity Effects**

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

#### **Product Information**

#### **Acute Toxicity to Fish**

No information available

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

#### Persistence / Degradability

No information available.

#### **Bioaccumulation / Accumulation**

No information available.

#### Mobility in Environmental Media

No information available.

#### **Ozone**

No information available

#### Component

#### **Acute Toxicity to Fish**

#### Titanium dioxide

LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

#### **Waste Disposal Method**

Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

SAGE !

# 

DOT

Not regulated

Revision Date: 04-Nov-2016

**TDG** 

Not regulated

ICAO / IATA

Not regulated

IMDG / IMO

Not regulated

#### International Inventories

**TSCA: United States** 

Yes - All components are listed or exempt.

DSL: Canada

Yes - All components are listed or exempt.

#### Federal Regulations

#### SARA 311/312 hazardous categorization

No
No
No
No
No

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

None

#### State Regulations

#### California Proposition 65

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

#### State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania
Titanium dioxide	X	X	X

#### Legend

X - Listed

#### National Pollutant Release Inventory (NPRI)

Revision Date: 04-Nov-2016

#### NPRI Parts 1-4

This product contains the following Parts 1-4 NPRI chemicals:

None

#### **NPRI Part 5**

This product contains the following NPRI Part 5 Chemicals:

None

#### **WHMIS Regulatory Status**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

PPE: -Reactivity: 0 HMIS -Health: 1 Flammability: 0

#### **HMIS Legend**

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 855-724-6802

04-Nov-2016 **Revision Date:** Not available Reason For Revision

#### <u>Disclaimer</u>

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and

completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**END OF SAFETY DATA SHEET** 



# SAFETY DATA SHEET

Revision Date: 19-Nov-2018 Revision Number: 4

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ULTRA SPEC 500 INTERIOR SEMI-GLOSS BASE 4

Product Code N5394X
Alternate Product Code N5394X

Product Class WATER THINNED PAINT

Color All Recommended use Paint

Restrictions on use No information available

Manufacturer Emergency Telephone

Benjamin Moore & Co. CHEMTREC (US): 800-424-9300

101 Paragon Drive Montvale, NJ 07645 Phone: 1-866-708-9180 www.benjaminmoore.com

# 2. HAZARDS IDENTIFICATION

CHEMTREC (outside US): (703)-527-3887

# Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

# Label elements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance liquid Odor little or no odor

### Hazards not otherwise classified (HNOC)

Not applicable

# Other information

No information available

# Other hazards

May cause allergic skin reaction

# 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
Kaolin	1332-58-7	10
Nepheline syenite	37244-96-5	5
Titanium dioxide	13463-67-7	0.5
Ammonia	7664-41-7	0.5
Hexanedioic acid, dihydrazide	1071-93-8	0.5

# 4. FIRST AID MEASURES

**General Advice** No hazards which require special first aid measures.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician

if necessary.

Most Important Symptoms/Effects May cause allergic skin reaction.

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.

Revision Date: 19-Nov-2018

Protective Equipment And Precautions For

As in any fire, wear self-contained breathing apparatus

Firefighters pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear.

Specific Hazards Arising From The Chemical Closed containers may rupture if exposed to fire or

extreme heat.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge No

**Flash Point Data** 

Flash Point (°F)

Flash Point (°C)

Method

Not applicable

Not applicable

Not applicable

\_\_\_\_\_

N5394X - ULTRA SPEC 500 INTERIOR SEMI-GLOSS

BASE 4

Revision Date: 19-Nov-2018

# Flammability Limits In Air

Lower flammability limit:Not applicableUpper flammability limit:Not applicable

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

### NFPA Legend

0 - Not Hazardous

- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information Prevent further leakage or spillage if safe to do so.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods for Cleaning Up Soak up with inert absorbent material. Sweep up and shovel into suitable

containers for disposal.

# 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or

sanding dust. In case of insufficient ventilation, wear suitable respiratory

equipment.

Storage Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL
Kaolin	2 mg/m³ - TWA	15 mg/m³ - TWA
	,=	5 mg/m³ - TWA
Titanium dioxide	10 mg/m³ - TWA	15 mg/m³ - TWA
Ammonia	25 ppm - TWA	50 ppm - TWA
	35 ppm - STEL	35 mg/m³ - TWA

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

BASE 4

Revision Date: 19-Nov-2018

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** 

**Eye/Face Protection** Safety glasses with side-shields.

**Skin Protection** Protective gloves and impervious clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and wash contaminated

clothing before re-use. Wash thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Odor little or no odor

Odor Threshold No information available

 Density (lbs/gal)
 9.3 - 9.4

 Specific Gravity
 1.11 - 1.13

pH No information available

Viscosity (cps)No information availableSolubility(ies)No information availableWater solubilityNo information availableEvaporation RateNo information available

Vapor pressure @20 °C (kPa)

No information available
No information available

 Wt. % Solids
 40 - 50

 Vol. % Solids
 30 - 40

 Wt. % Volatiles
 50 - 60

 Vol. % Volatiles
 60 - 70

 VOC Regulatory Limit (g/L)
 0

 Boiling Point (°F)
 212

 Boiling Point (°C)
 100

 Freezing Point (°F)
 32

Freezing Point (°C) 0
Flash Point (°F) Not applicable
Flash Point (°C) Not applicable
Method Not applicable
Flammability (solid, gas) Not applicable

Flammability (solid, gas)
Upper flammability limit:
Not applicable
Not applicable
Not applicable

Autoignition Temperature (°F)

Autoignition Temperature (°C)

Decomposition Temperature (°F)

Decomposition Temperature (°C)

No information available

# 10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Chemical Stability Stable under normal conditions.

N5394X - ULTRA SPEC 500 INTERIOR SEMI-GLOSS

BASE 4

Revision Date: 19-Nov-2018

Conditions to avoid Prevent from freezing.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products

None under normal use.

Possibility of hazardous reactions None under normal conditions of use.

# 11. TOXICOLOGICAL INFORMATION

### **Product Information**

#### Information on likely routes of exposure

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

**Acute Toxicity** 

Product Information No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available

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

**Eye contact** May cause slight irritation.

Skin contact Substance may cause slight skin irritation. Prolonged or repeated contact may dry

skin and cause irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization May cause an allergic skin reaction

**Neurological Effects** No information available. No information available. Mutagenic Effects Reproductive Effects No information available. **Developmental Effects** No information available. Target organ effects No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. Other adverse effects No information available. No information available **Aspiration Hazard** 

# Numerical measures of toxicity

# The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) 445.7 mg/L

# Component Information

Kaolin

LD50 Oral: > 5000 mg/kg (Rat)

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

N5394X - ULTRA SPEC 500 INTERIOR SEMI-GLOSS

BASE 4

Revision Date: 19-Nov-2018

#### Ammonia

LC50 Inhalation (Vapor): 2000 ppm (Rat, 4 hr.)

#### Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

Chemical name	IARC	NTP	OSHA
	2B - Possible Human		Listed
Titanium dioxide	Carcinogen		

Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes:

# Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity Effects**

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

#### **Product Information**

# **Acute Toxicity to Fish**

No information available

# **Acute Toxicity to Aquatic Invertebrates**

No information available

# **Acute Toxicity to Aquatic Plants**

No information available

# Persistence / Degradability

No information available.

# **Bioaccumulation**

No information available.

#### Mobility in Environmental Media

No information available.

#### Ozone

No information available

# **Component Information**

# **Acute Toxicity to Fish**

#### Titanium dioxide

LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

<sup>&</sup>quot;No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

BASE 4

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

# **Acute Toxicity to Aquatic Plants**

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with federal, state, and local regulations. Local

requirements may vary, consult your sanitation department or state-designated

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environmental protection agency for more disposal options.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

# 15. REGULATORY INFORMATION

# International Inventories

**TSCA: United States**Yes - All components are listed or exempt.

Yes - All components are listed or exempt.

# Federal Regulations

# SARA 311/312 hazardous categorization

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

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

None

N5394X - ULTRA SPEC 500 INTERIOR SEMI-GLOSS BASE 4

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# **US State Regulations**

# **California Proposition 65**

MARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
Kaolin	X	Χ	X

# Legend

X - Listed

# 16. OTHER INFORMATION

HMIS -Health: 1 Flammability: 0 Reactivity: 0 PPE: -

#### **HMIS Legend**

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- \* Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645

800-225-5554

19-Nov-2018 **Revision Date: Revision Summary** Not available

BASE 4

Revision Date: 19-Nov-2018

#### Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**END OF SAFETY DATA SHEET** 



# SAFETY DATA SHEET

Revision Date: 25-Sep-2018 Revision Number: 3

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ULTRA SPEC 500 INTERIOR SEMI-GLOSS WHITE

Product Code N53901
Alternate Product Code N53901

Product Class WATER THINNED PAINT

Color White Recommended use Paint

Restrictions on use No information available

Manufacturer Emergency Telephone

Benjamin Moore & Co. CHEMTREC (US): 800-424-9300

Montvale, NJ 07645 Phone: 1-866-708-9180 www.benjaminmoore.com

101 Paragon Drive

# 2. HAZARDS IDENTIFICATION

CHEMTREC (outside US): (703)-527-3887

# Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

# Label elements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance liquid Odor little or no odor

### Hazards not otherwise classified (HNOC)

Not applicable

#### Other information

No information available

MINIE

# 3. COMPOSITION INFORMATION ON COMPONENTS

Chemical name	CAS No.	Weight-%
Titanium dioxide	13463-67-7	20
Nepheline syenite	37244-96-5	10
Sodium C14-C16 olefin sulfonate	68439-57-6	0.5

# 4. FIRST AID MEASURES

**General Advice** No hazards which require special first aid measures.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician

if necessary.

Most Important Symptoms/Effects None known.

Notes To Physician Tre

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

**Protective Equipment And Precautions For** 

**Firefighters** 

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

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and full protective gear.

Specific Hazards Arising From The Chemical Closed containers may rupture if exposed to fire or

extreme heat.

Sensitivity To Mechanical Impact No

Sensitivity To Static Discharge No

Flash Point Data

Flash Point (°F)

Flash Point (°C)

Method

Not applicable

Not applicable

Not applicable

Flammability Limits In Air

Lower flammability limit: Not applicable

N53901 - ULTRA SPEC 500 INTERIOR SEMI-GLOSS

WHITE

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Upper flammability limit: Not applicable

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

# NFPA Legend

0 - Not Hazardous

- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**Other Information** Prevent further leakage or spillage if safe to do so.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods for Cleaning Up Soak up with inert absorbent material. Sweep up and shovel into suitable

containers for disposal.

# 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or

sanding dust. In case of insufficient ventilation, wear suitable respiratory

equipment.

**Storage** Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL
Titanium dioxide	10 mg/m <sup>3</sup> - TWA	15 mg/m³ - TWA

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin Protection** Protective gloves and impervious clothing.

WHITE

**Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures Avoid contact with skin, eyes and clothing. Remove and wash contaminated

clothing before re-use. Wash thoroughly after handling.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

**Odor** little or no odor

Odor Threshold No information available

**Density (lbs/gal)** 10.6 - 10.7 **Specific Gravity** 1.27 - 1.29

pHNo information availableViscosity (cps)No information availableSolubility(ies)No information availableWater solubilityNo information availableEvaporation RateNo information available

Vapor pressure @20 °C (kPa)

Vapor density

No information available
No information available

 Wt. % Solids
 50 - 60

 Vol. % Solids
 35 - 45

 Wt. % Volatiles
 40 - 50

 Vol. % Volatiles
 55 - 65

 VOC Regulatory Limit (g/L)
 0

 Boiling Point (°F)
 212

Boiling Point (°F) 212
Boiling Point (°C) 100
Freezing Point (°F) 32
Freezing Point (°C) 0
Flash Point (°F) Not

Flash Point (°F)

Flash Point (°C)

Method

Flammability (solid, gas)

Upper flammability limit:

Not applicable

Not applicable

Not applicable

Lower flammability limit:

Autoignition Temperature (°F)

Autoignition Temperature (°C)

Decomposition Temperature (°F)

Decomposition Temperature (°C)

No information available

No information available

No information available

Partition coefficient No information available

# 10. STABILITY AND REACTIVITY

Reactivity Not Applicable

Chemical Stability Stable under normal conditions.

Conditions to avoid Prevent from freezing.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products

None under normal use.

WHITE

#### Possibility of hazardous reactions

None under normal conditions of use.

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# 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

Information on likely routes of exposure

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

**Acute Toxicity** 

Product Information No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available

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

**Eye contact** May cause slight irritation.

Skin contact Substance may cause slight skin irritation. Prolonged or repeated contact may dry

skin and cause irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization No information available **Neurological Effects** No information available. **Mutagenic Effects** No information available. **Reproductive Effects** No information available. **Developmental Effects** No information available. Target organ effects No information available. No information available. STOT - single exposure STOT - repeated exposure No information available. Other adverse effects No information available. **Aspiration Hazard** No information available

# Numerical measures of toxicity

# The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 53165 mg/kg

#### **Component Information**

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

#### Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

Chemical name	IARC	NTP	OSHA
	2B - Possible Human		Listed
Titanium dioxide	Carcinogen		

• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Revision Date: 25-Sep-2018

# Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity Effects**

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

#### **Product Information**

# **Acute Toxicity to Fish**

No information available

# **Acute Toxicity to Aquatic Invertebrates**

No information available

# **Acute Toxicity to Aquatic Plants**

No information available

# Persistence / Degradability

No information available.

# **Bioaccumulation**

No information available.

#### Mobility in Environmental Media

No information available.

#### Ozone

No information available

# **Component Information**

# **Acute Toxicity to Fish**

Titanium dioxide

LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

#### **Acute Toxicity to Aquatic Invertebrates**

No information available

#### **Acute Toxicity to Aquatic Plants**

No information available

# 13. DISPOSAL CONSIDERATIONS

WHITE

**Waste Disposal Method** Dispose of in accordance with federal, state, and local regulations. Local

requirements may vary, consult your sanitation department or state-designated

Revision Date: 25-Sep-2018

environmental protection agency for more disposal options.

# 14. TRANSPORT INFORMATION

DOT Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

# 15. REGULATORY INFORMATION

# **International Inventories**

**TSCA: United States** Yes - All components are listed or exempt. **DSL: Canada** No - Not all of the components are listed. One or more component is listed on NDSL.

# Federal Regulations

#### SARA 311/312 hazardous categorization

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

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

None

# **US State Regulations**

#### **California Proposition 65**

MARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

N53901 - ULTRA SPEC 500 INTERIOR SEMI-GLOSS

WHITE

Revision Date: 25-Sep-2018

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania
Titanium dioxide	X	X	X

# Legend

X - Listed

# 16. OTHER INFORMATION

HMIS - Health: 1 Flammability: 0 Reactivity: 0 PPE: -

# **HMIS Legend**

- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- \* Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By Product Stewardship Department

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645

800-225-5554

Revision Date: 25-Sep-2018
Revision Summary Not available

#### Disclaimer

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# **END OF SAFETY DATA SHEET**

Revision Date: 25-Sep-2018

# **Lab-aids**

# MATERIAL SAFETY DATA SHEET

ю# 81R-11

01/12/01

CHEMICAL NAME & SYNONYMS	Universal Indicator	
CAS No.(s) -	7732-18-5; 0064-17-5; 1310-73-2; 0076-59-5	
USED IN LAB-AIDS KITS # ('s) -	81R	
FORMULA -	Mixture/solution	
FORMULA WEIGHT (F.W.) -	Mixture	
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	An ethyl alcohol based solution.	
APPEARANCE AND ODOR -	Dark green liquid, with characteristic odor of ethyl alcohol.	
INCOMPATABILITY - (MATERIALS TO AVOID)	Open flame.	
DOT CLASS -	Not regulated	
REACTIVITY -	Stable	
CONDITIONS TO AVOID- (IF ANY)	Avoid inhaling fumes.	
HEALTH HAZARDS - (IF ANY)	Toxic by ingestion.	
TOLERANCE LIMIT VALUE (TLV )- (IF ESTABLISHED)	None established.	
FIRE HAZARDS - (IF ANY )	Flammable, use Triclass dry chemical fire extinguisher	
SPILLS AND LEAKS -	Absorb w/sand or vermiculite and place in a suitable containe	
DISPOSAL METHOD -	Allow to evaporate and place residue in the trash	
SPECIAL PRECAUTIONS - (IF ANY.)	Use chemical splash safety goggles	
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician Respiratory: Transport to fresh air	
	(21) 727 1122	

N/A - NOT APPLICABLE

17 COLT COURT, RONKONKOMA, NY 11779

(631) 737-1133

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 01.06.2015

#### **Universal Indicator**

# SECTION 1: Identification of the substance/mixture and of the supplier

Product name:

Universal Indicator

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number:

KEMUN1000-A

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc. 9 Barnhart Drive Hanover, PA 17331 1-717-632-1291

### **Supplier Details:**

AquaPhoenix Scientific Inc. 9 Barnhart Drive, Hanover PA 17331 (717) 632-1291

# Emergency telephone number:

ChemTel: (24-hour) (US and Canada)

1-(800)-255-3924

#### SECTION 2: Hazards identification

#### Classification of the substance or mixture:



#### Flammable

Flammable solids, category 2

Flammable liq. 2.

Signal word: None

#### Hazard statements:

Highly flammable liquid and vapour.

# Precautionary statements:

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/light/.../equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

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

In case of fire: Use ... for extinction.

Store in a well ventilated place. Keep cool.

Dispose of contents/container.

#### Other Non-GHS Classification: None

**Effective date**: 01.06.2015

Universal Indicator	•

# SECTION 3: Composition/information on ingredients

#### Ingredients:

Ingredients:		
CAS 64-17-5	Ethanol	47.34 %
CAS 34722-90-2	Bromothymol Blue, Sodium Salt	0.05 %
CAS 7732-18-5	Deionized Water	52.45 %
CAS 547-58-0	Methyl Orange	0.02 %
CAS 845-10-3	Methyl Red, Sodium Salt	0.015 %
CAS 518-51-4	Phenolphthalein, Disodium Salt	0.035 %
		Percentages are by weight

#### SECTION 4: First aid measures

### Description of first aid measures

#### After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. If breathing is difficult give oxygen. Immediately get medical assistance.

#### After skin contact:

Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical attention if irritation persists or if concerned.

# After eye contact:

Protect unexposed eye. Remove contact lens(es) if able to do so during rinsing. Rinse or flush exposed eye gently using water for 15-20 minutes. Immediately get medical assistance.

#### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Dilute mouth with water or milk after rinsing. Immediately get medical assistance.

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

Irritation. Nausea. Headache. Shortness of breath.

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

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

# SECTION 5: Firefighting measures

#### Extinguishing media

# Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam. Water spray can keep containers cool.

#### Unsuitable extinguishing agents: None

# Special hazards arising from the substance or mixture:

Moderate explosion hazard. Dangerous fire hazard when exposed to heat, sparks, and open flames.

#### Advice for firefighters:

#### Protective equipment:

**Effective date**: 01.06.2015

#### Universal Indicator

Wear protective eyeware, gloves, and clothing. Refer to Section 8.

#### Additional information (precautions):

Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Ensure adequate ventilation.

### **Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Ethanol has a slight acute and chronic toxicity to aquatic life.

#### Methods and material for containment and cleaning up:

If necessary use trained response staff or contractor. Refer to Section 8. Wear protective eyeware, gloves, and clothing. Remove all sources of ignition. Contain spill. Absorb with suitable material and place in chemical waste container. Ventilate area of spill. Use non-sparking equipment. Dispose of empty containers as unused product. Refer to Section 13.

#### Reference to other sections: None

#### SECTION 7: Handling and storage

# Precautions for safe handling:

Wear protective eyeware, gloves, and clothing. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes, and clothing. Empty containers can still be hazardous since they retain product residue. Refer to Section 8.

# Conditions for safe storage, including any incompatibilities:

Store in a cool location. Store in a secure flammable storage area away from sources of ignition. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Keep container tightly closed. Store with like hazards. Protect from freezing and physical damage.

#### SECTION 8: Exposure controls/personal protection





Control parameters: 64-17-5, Ethanol, Denatured, ACGIH TLV: 1880mg/m3.

64-17-5, Ethanol, Denatured, OSHA PEL: 1900mg/m3.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use/handling. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work

area.

**Respiratory protection:** Not required under normal conditions of use. Use suitable respiratory

protective device when high concentrations are present. If exposure limit is exceeded, a full-face respirator with organic cartridge may be worn.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation.

**Eye protection:** Safety glasses with side shields or goggles.

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 01.06.2015

#### **Universal Indicator**

#### General hygienic measures:

Wash hands before breaks and at the end of work. Perform routine housekeeping to prevent dust generation. Before wearing wash contaminated clothing. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

#### SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear green liquid	Explosion limit lower: Explosion limit upper:	3.3 18.0
Odor:	Alcohol	Vapor pressure at 20°C:	48 mm Hg
Odor threshold:	Not determined	Vapor density:	1.5
pH-value:	Not determined	Relative density:	0.93
Melting/Freezing point:	Not determined	Solubilities:	Infinite solubility.
Boiling point/Boiling range:	80C	Partition coefficient (n- octanol/water):	Not determined
Flash point (closed cup):	15.5°C	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	3.6	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined		

#### SECTION 10: Stability and reactivity

Reactivity: None Chemical stability:

Stable under normal conditions.

#### Possible hazardous reactions:

Vapours may form explosive mixture with air.

# Conditions to avoid:

Excessive heat. Incompatible materials. Ignition sources.

# Incompatible materials:

Strong oxidizers, heat, sparks, open flames, platinum, sodium, bromine pentafluoride, potassium dioxide, acetyl bromide, and acetyl chloride.

#### Hazardous decomposition products:

Carbon oxides (CO, CO2). Acrid and irritating fumes.

# SECTION 11: Toxicological information

# **Acute Toxicity**:

#### Dermal:

: LD-50 15800 mg/kg (rabbit).

**Chronic Toxicity**: No additional information.

**Skin corrosion/irritation**: No additional information. **Serious eye damage/irritation**: No additional information. **Respiratory or skin sensitization**: No additional information.

Carcinogenicity: No additional information.

**Effective date**: 01.06.2015

#### **Universal Indicator**

**Germ cell mutagenicity**: No additional information. **Reproductive Toxicity**: No additional information.

**STOT-single and repeated exposure**: No additional information. **Additional toxicological information**: No additional information.

#### SECTION 12: Ecological information

#### **Ecotoxicity:**

: Aquatic Tox., Ethanol has a slight acute and chronic toxicity to aquatic life.

**Persistence and degradability**: No additional information. **Bioaccumulative potential**: No additional information.

Mobility in soil:

Aqueous solution has high mobility in soil. **Other adverse effects**: No additional information.

#### **SECTION 13: Disposal considerations**

#### Waste disposal recommendations:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Absorb with suitable absorbent material such as sand or earth and containerize for disposal. Ventilate area of leak or spill. Have fire extinguishing agent available in case of fire. Eliminate all sources of ignition. Use spark-proof tools and explosion-proof equipment. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

#### **SECTION 14: Transport information**

**US DOT** 

UN Number:

ADR, ADN, DOT, IMDG, IATA

UN1170

**Limited Quantity Exception:** 

None

Bulk:

RQ (if applicable): None

NO (II applicable): None

**Proper shipping Name:** Ethanol.

Hazard Class: None Packing Group: II.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: Ethanol.

Hazard Class: None Packing Group: II.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

#### SECTION 15: Regulatory information

# United States (USA)

# SARA Section 311/312 (Specific toxic chemical listings):

**Effective date**: 01.06.2015

#### Universal Indicator

Acute, Chronic, Fire

# SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

# RCRA (hazardous waste code):

None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

# CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

# Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

# Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

# Chemicals known to cause developmental toxicity:

64-17-5 Ethanol.

#### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA**: 2-0-0 **HMIS**: 2-0-0

GHS Full Text Phrases: None

#### **Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.

PNEC. Predicted No-Effect Concentration (REACH).

CFR Code of Federal Regulations (USA).

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA. Resource Conservation and Recovery Act (USA).

**Effective date**: 01.06.2015

#### **Universal Indicator**

TSCA, Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

DOT US Department of Transportation.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists.

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).

DNEL Derived No-Effect Level (REACH).





# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
0	Fire Hazard 1	
,	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification		Page Number: 1	
Common Name/ Trade Name	Universal Indicator Solution	Catalog Number(s).	U-110
		CAS#	Mixture.
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	Not applicable.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Isopropyl alcohol; Methyl alcohol; Phenolphthalein; Bromothymol blue sodium salt; Thymol blue, sodium salt; Methyl red, sodium salt; Water
Commercial Name(s)	Not available.	Cl#	Not applicable.
Synonym	Not available.	IN CASE OF	EMERGENCY
Chemical Name	Not applicable.		C (24hr) 800-424-9300
Chemical Family	Alcohol. (Salvent.)	CALL (310) 5	16-8000
Chemical Formula	Not applicable.		
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

	Exposure Limits				
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Isopropyl alcohol 2) Methyl alcohol 3) Phenolphthalein 4) Bromothymol blue sodium salt 5) Thymol blue, sodium salt 6) Methyl red, sodium salt 7) Water	67-63-0 67-56-1 77-09-8 34722-90-2 81012-93-3 845-10-3 7732-18-5	980 262	1230 328		37 0.8 0.03 0.03 0.03 0.02 62.1

on Ingredients

ORAL (LD50): DERMAL (LD50): VAPOR (LC50):

Acute: 5045 mg/kg [Rat]. 3600 mg/kg [Mouse]. Acute: 12800 mg/kg [Rabbit].

Acute: 22627.4 ppm 4 hour(s) [Rat].

Methyl alcohol: ORÁL (LD50): DERMAL (LD50): VAPOR (LC50):

Acute: 5628 mg/kg [Rat.]. Acute: 15800 mg/kg [Rabbit.]. Acute: 64000 ppm 4 hour(s) [Rat.].

Universal	Indicator	Solution
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Page Number: 2

Section 3.	Hazards	Identification
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Potential Acute Health Effects Very hazardous in case of eye contact (irritant), of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Non-corrosive for skin. Non-sensitizer for Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health

Effects

Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin.

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS**: Not available TERATOGENIC EFFECTS: Not available.

**DEVELOPMENTAL TOXICITY: PROVEN [Methyl alcohol]** 

The substance is toxic to kidneys, lungs, the nervous system, mucous membranes, the reproductive system.

Repeated or prolonged exposure to the substance can produce target organs damage.

#### Section 4. First Aid Measures

Eve Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes,	l
•	keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.	l

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin Skin Contact with running water and non-abrasive scap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Wash contaminated clothing before reusing.

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical Serious Skin Contact

attention.

Allow the victim to rest in a well ventilated area. Seek immediate medical attention. Inhalation

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or Serious Inhalation waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth

resuscitation. Seek medical attention.

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not Ingestion

breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion Not available.

#### Section 5. Fire and Explosion Data

Flammability of the Product	Flammable.
Auto-Ignition Temperature	The lowest known value is 399°C (750.2°F) (Isopropyl alcohol).
Flash Points	The lowest known value is CLOSED CUP: 11.67°C (53°F). (TAG). OPEN CUP: 18.3°C (64.9°F). (Cleveland). (Isopropyl alcohol)
Flammable Limits	The greatest known range is LOWER: 2% UPPER: 12% (Isopropyl alcohol)

**Products of Combustion** These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances

Flammable in presence of open flames and sparks, of oxidizing materials. Slightly flammable to flammable in presence of heat, of combustible materials.

of Various Substances

Explosion Hazards in Presence Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Slightly explosive to explosive in presence of oxidizing materials.

Fire Fighting Media and Instructions

Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards

Explosive in the form of vapor when exposed to heat or flame. May form explosive mixtures with air. Vapor may travel considerable distance to source of ignition and flash back. CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME (Isopropyl alcohol)

Special Remarks on Explosion Not available.

Hazards

Universal Indicator Solution Page Number:		
Section 6. Accidental Release Measures		
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.	
Large Spill	Flammable liquid.  Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

Section 7. Har	Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.		
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).		

<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.			
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.			
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specia BEFORE handling this product.			
Exposure Limits	Isopropyl alcohol TWA: 400 STEL: 500 (ppm) from ACGIH (TLV) [1995] TWA: 980 STEL: 1230 (mg/m³) from ACGIH [1995]			
	Methyl alcohol TWA: 200 STEL: 250 (ppm) from ACGIH (TLV) [1995] TWA: 262 STEL: 328 (mg/m³) from ACGIH [1995]			
	Consult local authorities for acceptable exposure limits.			

Physical state and appearance	Liquid.	Odor	Not available.
		Taste	Not available.
Molecular Weight	Not applicable.	Color	Not available.
pH (1% soln/water)	Neutral.		
Bolling Point	The lowest known value is 82.22°C (180°F) (Isopropyl alcohol). Weighted average: 93.36°C (200°F)		
Melting Point	May start to solidify at -89.5°C (-129.1°F) based on data for: Isopropyl alcohol.		
Critical Temperature	Not available.		
Specific Gravity	Weighted average: 0.91 (Water = 1)		
Vapor Pressure	The highest known value is 33 mm of Hg (@ 20°C) (Isopropyl alcohol). Weighted average: 23.31 mm of Hg (@ 20°C)		
Vapor Density	The highest known value is 2.07 (Air = 1) (Isopropyl alcohol). Weighted average: 1.16 (Air = 1)		
Volatility	Not available.		

# Continued on Next Page

Universal Indicator Solution		Page Number: 4
Odor Threshold	The highest known value is 50 ppm (Isopropyl alcohol)	
Water/Oil Dist. Coeff.	The product is equally soluble in oil and water.	
Ionicity (in Water)	Not available.	
Dispersion Properties	Is not dispersed in methanol, diethyl ether. See solubility in water, methanol, diethyl ether, n-octanol, acetone.	
Solubility	Easily soluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.	

Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Not available.	
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information				
Routes of Entry	Eye contact. Inhalation. Ingestion.			
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 9730 mg/kg (Mouse) (Calculated value for the mixture). Acute dermal toxicity (LD50): 34595 mg/kg (Rabbit) (Calculated value for the mixture). Acute toxicity of the vapor (LC50): 61155 ppm 4 hour(s) (Rat) (Calculated value for the mixture).			
Chronic Effects on Humans	<b>DEVELOPMENTAL TOXICITY</b> : PROVEN [Methyl alcohol] The substance is toxic to kidneys, lungs, the nervous system, mucous membranes, the reproductive system.			
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Non-corrosive for skin. Non-sensitizer for skin.			
Special Remarks on Toxicity to Animals	Not available.			
Special Remarks on Chronic Effects on Humans	Detected in maternal milk in human. (Isopropyl alcohol)			
Special Remarks on other Toxic Effects on Humans	Narcotic. (Methyl alcohol)			

Section 12. Ecological Information					
Ecotoxicity	Not available.				
BOD5 and COD	Not available.				
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.				
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.				

# Continued on Next Page

#### Universal Indicator Solution

Page Number: 5

Special Remarks on the Products of Biodegradation Not available.

# Section 13. Disposal Considerations

Waste Disposal

# Section 14. Transport Information

DOT Classification

Class 3: Flammable liquid.

Identification

: Isopropanol solution (Isopropyl alcohol) : UN1219 PG: II

Special Provisions for Transport

Not available.

DOT (Pictograms)



# Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Isopropyl alcohol; Methyl alcohol Massachusetts RTK: Isopropyl alcohol; Methyl alcohol

TSCA 8(b) inventory: Isopropyl alcohol; Methyl alcohol; Phenolphthalein; Bromothymol blue sodium salt; Thymol

blue, sodium salt; Methyl red, sodium salt; Water

SARA 313 toxic chemical notification and release reporting: Isopropyl alcohol; Methyl alcohol

CERCLA: Hazardous substances.: Methyl alcohol;

### Camornia

Proposition 65

Warnings

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Regulations
Other Classifications

WHMIS (Canada)

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC)

R11- Highly flammable. R38- Irritating to skin.

R41- Risk of serious damage to eyes.

# HMIS (U.S.A.)

And the second	Lide State	1	100
Fire Hexard		3	152
Reactivity		0	٠.
Personal Protection	(	h	

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

Health



Flammability

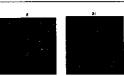
Reactivity

Specific hazard

# WHMIS (Canada) (Pictograms)



# DSCL (Europe) (Pictograms)



Hairaraa	Indiantar	Calution
universal	Indicator	Solution

Page Number: 6

TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



# **Protective Equipment**



Gloves.



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

# Section 16. Other Information

MSDS Code U110S

References Not available.

Other Special Not available.
Considerations

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

Printed 9/14/2006.

CALL (310) 516-8000

#### Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 839.00

Revision Date: March 21, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Universal Indicator Solution**

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

# SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral and dermal (Category 5). May be harmful if swallowed or in contact with skin (H303+H313).

Hazard class: Serious eye damage or irritation (Category 2B). Causes eye irritation (H320).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Methyl red Bromthymol blue, sodium salt	845-10-3 34722-90-2	$C_{15}H_{14}N_3O_2Na$ $C_{17}H_{27}Br_2O_5S$	291.28 646.38	<0.05% <0.05%
Phenolphthalein	77-09-8 1310-73-2	$NaC_{20}H_{14}O_{4}$	318.31 39.997	<0.05% <0.05%
Sodium hydroxide Ethyl alcohol, denatured	64-17-5	NaOH C₂H₅OH	46.07	55%
Water	7732-18-5	НДО	18.00	45%

#### **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell (P312).

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 (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313). If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). If swallowed: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once, product contains denatured ethyl alcohol.

#### **SECTION 5 --- FIRE FIGHTING MEASURES**

Class IC flammable liquid.	NFPA CODE
Flash point: 24 °C	H-2
When heated, releases flammable fumes.	F-3
In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).	R-0
In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).	R-0

# SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

# FLINN SCIENTIFIC, INC.

Safety Data Sheet

**Universal Indicator Solution** 

SDS #: 839.00

Revision Date: March 21, 2014

#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains.

Keep container tightly closed and cool (P233+P235). Use explosion-proof electrical and ventilating equipment (P241). Take precautionary measures against static discharge (P243).

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Will stain skin, clothing, and surfaces.

Exposure guidelines: (as ethyl alcohol) PEL 1000 ppm (OSHA), Ceiling 1000 ppm (ACGIH)

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

The color of this solution depends entirely on the pH of the solution. Slight alcohol odor.

pH indicator solution.

# SECTION 10 - STABILITY AND REACTIVITY

Avoid contact with open flame, sparks or other sources of ignition. Shelf life: Indefinite, if stored properly.

# **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Eye irritation, nausea, dizziness, headache.

Chronic effects: Liver damage, reproductive, teratogenic effects, carcinogen.

Target organs: Eyes, skin, central nervous system, liver,

reproductive system.

ORL-MAN TLD<sub>0</sub>: 29 mg/kg (as phenolphthalein) IHL-RAT LC<sub>50</sub>: 20,000 ppm/10H (as ethyl alcohol) 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 #26b is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Ethyl alcohol solution. Hazard class: 3, Flammable liquid. UN number: UN1170.

N/A = Not applicable

# **SECTION 15 — REGULATORY INFORMATION**

Not listed.

#### 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 21, 2014

#### Section 1 Chemical Pro

#### **Chemical Product and Company Identification**

Page E1 of E2



5100 West Henrietta Rd PO Box 92912 Rochester, NY 14692-9012 Tel: (800) 962-2660 Boreal Science 399 Vansickle Road St. Catherines, Ontario L2S 3T4 Canada Tel: (800) 387-9393

#### CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product UNIVERSAL PH INDICATOR

Synonyms Universal Indicator

Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS02 / GHS07 / GHS08 / GHS06

Target organs: Eyes, Central nervous system, Liver, Kidneys.









#### **GHS Classification:**

Flammable liquid (Category 2) Acute toxicity, inhalation (Category 3) Skin irritation (Category 2) Eye irritation (Category 2B) STOT-SE (Category 2) STOT-SE (Category 3)

#### GHS Label information: Hazard statement:

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H336: May cause drowsiness or dizziness. H371: May cause damage to organs.

#### Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe mist/vapours/spray. P264: Wash hands thoroughly after handling

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P332+P313: If skin irritation occurs: Get medical attention.

P337+P313: If eye irritation persists: Get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

#### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information	tion on Ingredients			
Chemical Name		CAS#	%	EINECS	
Ethyl alcohol		64-17-5	64.50 - 65.11%	200-578-6	
Water		7732-18-5	23.96%	231-791-2	
Isopropyl alcohol		67-63-0	6.83%	200-661-7	
Methanol		67-56-1	3.03 - 3.26%	200-659-6	
Methyl isobutyl ke	tone	108-10-1	0.68 - 0.76%	203-550-1	
Bromothymol blue		76-59-5	0.06%	200-971-2	
Phenolphthalein		77-09-8	0.06%	201-004-7	
Methyl red		845-10-3	0.02%	212-682-9	
Thymol blue		62625-21-2	0.005%	263-650-6	

#### Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

#### Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

#### Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 **Handling & Storage** 

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	Ethanol	STEL: 1000 ppm / 1880 mg/m <sup>3</sup> (A3)	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

#### **Physical & Chemical Properties** Section 9

Appearance: Clear, green liquid. Odor: Mild characteristic odor. Odor threshold: Data not available

pH: Data not available.

Melting / Freezing point: -114°C (-173°F)\* Boiling point: 75-80°C (173-174°F)\*

Flash point: Approximately 21°C (70°F)

Evaporation rate ( Butyl acetate = 1): 4.1\* Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: 4.0%(V) / 20.0%(V)\* Vapor pressure (mm Hg): 44.6 @ 20°C (68°F)\*

Vapor density (Air = 1): 1.59\*

Relative density (Specific gravity): 0.794 @ 60°F\*

Solubility(ies): Soluble in water.

Partition coefficient: Data not available Auto-ignition temperature: 400°C (752°F)\* Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture

\*[Pure Ethanol]

#### Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizers, inorganic acids and halogens.

Hazardous decomposition products: Oxides of carbon.

#### Section 11 **Toxicological Information**

Acute toxicity: Oral-rat LD50: 7060 mg/kg; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

Skin corrosion/irritation: Skin-rabbit - Slight irritant. Serious eye damage/irritation: Eyes-rabbit - Severe irritant. Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65: A WARNING! : This product can expose you to Phenolphthalein, Methanol and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Ingestion: Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

Skin: Contact with skin causes irritation defatting on prolonged contact.

Eves: Contact with eves may cause blindness.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: KQ6300000 [Ethanol]

#### **Ecological Information**

Toxicity to fish: Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacia), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

Toxicity to algae: Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute] Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### **Disposal Considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

#### Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: UN1170 Shipping name: Ethanol solution

Reportable Quantity: 5,000 lbs (2270 kg) Hazard class: 3 Packing group: || Marine pollutant: No

2016 ERG Guide # 127 Exceptions: Limited quantity equal to or less than 1 L

#### Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol	Listed	Not listed	D001	Listed	Not listed	⚠ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Methanol	Listed	5,000 lbs.	U154	Listed	Not listed	
Isopropanol	Listed	Not listed	Not listed	Listed	Not listed	

#### Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook

Revision Date: July 5, 2018 Form 06/2015 Supercedes: May 1, 2018

# Part of Thermo Fisher Scientific

# **SAFETY DATA SHEET**

Revision Date 30-Mar-2015

**Revision Number 2** 

# 1. Identification

**Product Name** 

Urea

Cat No.:

U15-3, U15-50, U15-500, U16-3, U16-50, U17-12, U17-212, U16SAM1

**Synonyms** 

Carbamide

Recommended Use

Laboratory chemicals.

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 **Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) Identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

None required

**Hazard Statements** 

Causes skin irritation

# Hazards not otherwise classified (HNOC)

None identified

3. Composition / inform	nation on ingredients
-------------------------	-----------------------

· • • • • • • • • • • • • • • • • • • •		
Component	CAS-No	141 1 1 1 1
Component	LAS-NO	I Weight % I
		110.9.1.70

Urea Urea	57-13-6	99-99.5

# 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Inhalation

Remove from exposure, lie down. Move to fresh air. If symptoms persist, call a physician. If

breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion

Clean mouth with water. If symptoms persist, call a physician.

Most important symptoms/effects

Notes to Physician

No information available. Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media

No information available

Flash Point Method - No information available
No information available

Autoignition Temperature

**Explosion Limits** 

No information available

Upper Lower

No data available No data available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

# **Hazardous Combustion Products**

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Ammonia

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.

# NFPA

Health

Flammability

Instability

Physical hazards

N/A

# 6. Accidental release measures

**Personal Precautions** 

**Environmental Precautions** 

Use personal protective equipment. Ensure adequate ventilation.

See Section 12 for additional ecological information.

**Methods for Containment and Clean** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for **Up** disposal.

# 7. Handling and storage

Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Avoid contact with clothing. Use only in well-ventilated areas. Wash hands before breaks and immediately after handling the product.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by Eye/face Protection

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State Appearance

Odor

Odor Threshold

Hα

Melting Point/Range

Boiling Point/Range Flash Point

**Evaporation Rate** Flammability (solid,gas)

Flammability or explosive limits

Upper Lower

Vapor Pressure Vapor Density

**Relative Density** 

Solubility

Partition coefficient; n-octanol/water

**Autoignition Temperature Decomposition Temperature** 

Viscosity

Molecular Formula Molecular Weight

Solid White

Ammonia-like

No information available

7.5-9.5 10% aq. solution

131 - 135 °C / 267.8 - 275 °F

No information available No information available No information available No information available

No data available No data available

1.25 mmHg @ 25 °C No information available

1.335

No information available No data available

No information available

> 132°C

No information available

C H4 N2 O 60.06

# 10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid

Incompatible products.

Incompatible Materials

Strong oxidizing agents, Chlorine, sodium hypochlorite

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Ammonia

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological information

Acute Toxicity

**Product Information** Component Information

No acute toxicity information is available for this product

Component LD50 Oral LD50 Dermal LC50 Inhalation Urea 8471 mg/kg (Rat) Not listed Not listed

**Toxicologically Synergistic** 

No information available **Products** 

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

Irritation

Irritating to skin

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Marria
Urea	57-13 <b>-</b> 6	Not listed	Not listed	Not listed	Not listed	Mexico Not listed
Mutagenic Effects		Mutagenic effects	have occurred in e	experimental anima	als.	Not listed

Reproductive Effects

No information available.

**Developmental Effects** 

No information available.

Teratogenicity

No information available.

STOT - single exposure STOT - repeated exposure

None known None known

Aspiration hazard

No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** 

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

# 12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Urea	Not listed	16200 - 18300 mg/L LC50 96 h	= 23914 mg/L EC50 Photobacterium phosphoreum 5 min	10000 mg/L EC50 > 24 h 3910 mg/L EC50 = 48 h

Persistence and Degradability Bioaccumulation/ Accumulation No information available No information available.

Mobility

Component	log Pow
Urea	-1.59
	-1,39

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport Information	
DOT TDG IATA	Not regulated	
106	Not regulated	
	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	· · · · · · · · · · · · · · · · · · ·

# International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Urea	X	X		200-315-5	-		X	Х	X	X	X

#### Legena:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)

Not applicable

**SARA 313** 

Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard
Chronic Health Hazard
No
Fire Hazard
Sudden Release of Pressure Hazard
No
Reactive Hazard
No

Clean Water Act

Not applicable

Clean Air Act

Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Not applicable

# U.S. Department of Transportation

Reportable Quantity (RQ):

N

DOT Marine Pollutant

N

**DOT Severe Marine Pollutant** 

N

# U.S. Department of Homeland Security

This product contains the following DHS chemicals:

Component	DHS Chemical Facility Anti-Terrorism Standard
Urea	2000 lb STQ
Other International Regulations	2000 10 01 Q

Mexico - Grade

No information available

#### Canada

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

WHMIS Hazard Class

D2B Toxic materials



# 16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Revision Date

30-Mar-2015

Print Date

30-Mar-2015

**Revision Summary** 

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 840.00

Revision Date: March 21, 2014

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Urea

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

WARNING

Pictograms

# **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

<u>:</u>	

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Urea	57-13-6	NH <sub>2</sub> CONH <sub>2</sub>	60.06	j :
			1	
		i		
Synonyms: Isourea; Carbamide resin				

# 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 (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water (P302+P352). If skin irritation occurs: Get medical advice or attention (P332+P313).

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

# **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solid.

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. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

# FLINN SCIENTIFIC, INC.

Safety Data Sheet

Urea

SDS #: 840.00

Revision Date: March 21, 2014

# **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Store in a cool, dry place.

# SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals or powder. Slight ammonia odor.

Soluble: Water and alcohol

Melting point: 132.7 °C

Specific gravity: 1.335

# SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers. Reacts with sodium hypochlorite or calcium hypochlorite to form the explosive nitrogentrichloride.

Shelf life: Indefinite, if stored properly.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant.

ORL-RAT LD<sub>50</sub>: 8471 mg/kg

Chronic effects: Possible mutagen.

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 #26a 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 (200-315-5).

# **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 LISE OR DISPOSAL OF THIS PRODUCT(S). 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 21, 2014