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Date issued

30.08.2015

#### 1.1. Product identifier

Product name

Unger Resin UE (US-CA-MX / EN)

Article no.

DI10U / DC225 / HP06T / HP12T / HP12C / HP24T / HP 24C / HP06K / HPB06 / HPB24 / DIR22 / DIC22 / DCC25 / DCR22 / 17617 / 17567

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

**Function** 

Ion exchange

Product group

Cleaning agents Demineralization

Use of the substance/preparation

No specific uses advised against are identified,

Uses advised against The chemical can be used by the

general public

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

Company name

**Unger Enterprises LLC** 

Office address

425 Asylum Street

Postcode

06610

City

Bridgeport, CT

Country

United States of America

Tel Fax +1 800 431 2324 +1 800 367 1988

compliance@ungerglobal.com

E-mail

http://www.ungerglobal.com

# Website 1.4. Emergency telephone number

Identification comments

For Hazardous Materials [or Dangerous Goods] Incident - Spill, Leak, Fire,

Exposure, or Accident - Call CHEMTREC Day or Night.

Within USA and Canada: 1-800-424-9300 CCN726541 or +1 703-527-3887

(collect calls accepted).

Within Mexico, please call + 1 203 366 4884 (collect calls accepted) between

8:30 am - 5:00 pm Eastern Time Zone (EST/EDT).

# 2.1. Classification of substance or mixture

STORES LEVEL CONTROL CONTROL

GHS Classification, Comments

Not classified as hazardous according to OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

2.2. Label elements

Composition on the label Precautionary statements Cation exchange resin:60 % wt/wt, Anion exchange resin:40 % wt/wt

P102 Keep out of reach of children.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

Physico-chemical effects

Spilled resin is a slipping hazard.

Health effects

Resin can cause eye and skin irritations, avoid eye and skin contact.

Environmental effects

Cf. section 12 for information on ecology.

Symptoms and effects of potential

No information required.

misuse

# SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Substance	Identification	Classification	Contents
Cation exchange resin (US)	CAS no.: 69011-18-3 Synonyms: Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminium N,N,N-trimethyl hydroxide IUPAC name: Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, chloromethylated, trimethylamine-quaternized, hydroxide		60 % wt/wt
Anion exchange resin (US)	CAS no.: 69011-20-7 Synonyms: Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated IUPAC name: Benzene, diethenyl-, polymer with ethenylbenzene and ethenylethylbenzene, sulfonated	Skin Irrit. 2; H315 Eye Irrit. 2; H319	40 % wt/wt
Description of the mixture	Spherical particles 0,2-0,4 mm. Solid. Amber. 0% of the mixture consists of ingredients(s) of unknown toxicity.		

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General Place unconscious person on the side in the recovery position and ensure

breathing can take place. If medical advice is needed, have product container

or label at hand.

Inhalation Due to the physical form the risk of inhalation is minimal. IF INHALED: Move

into fresh air and keep at rest.

Skin contact Wash skin with soap and water.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any

contact lenses and open eyelids widely. If irritation persists: Seek medical

attention and bring along these instructions.

Ingestion Immediately rinse mouth and drink plenty of water (7-10 fl. oz.). Never give

liquid to an unconscious person. DO NOT INDUCE VOMITING! If medical

advice is needed, have product container or label at hand.

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

Acute symptoms and effects

Cf. section 11.1 - information on toxicological effects.

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

Specific details on antidotes Decontamination, symptomatic treatment. No special antidote known.

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5.1. Extinguishing media

Suitable extinguishing media Product doesn't ignite. Use fire-extinguishing media appropriate for surrounding

materials. Water jet.

Improper extinguishing media

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards

This product is not flammable.

Hazardous combustion products

Carbon dioxide (CO2). Carbon monoxide (CO). Hydrocarbons. Organic decomposition products. Sulfur dioxide (SO2). Sulfur trioxide (SO3).

5.3. Advice for firefighters

Personal protective equipment

In case of inadequate ventilation wear respiratory protection. Use personal

protective equipment as required.

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6.1. Personal precautions, protective equipment and emergency procedures

General measures

Avoid dust formation. Avoid contact with eyes and skin.

Personal protection measures

Ensure suitable personal protection (including respiratory protection) during

removal of spillages in a confined area.

Hazardous combustion products

Cf. section 5

6.1.2. For emergency responders

For emergency responders

In case of inadequate ventilation wear respiratory protection. Use personal

protective equipment as required.

6.2. Environmental precautions

Environmental precautionary

measures

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method

Sweepup or pickup with an industrial vacuum cleaner, store in closed

container for disposal.

6.4. Reference to other sections

Other instructions

Cf. section 8 for personal protection, and section 13 for waste disposal.

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7.1. Precautions for safe handling

Handling

Observe good chemical hygiene practices. Avoid contact with eyes and prolonged skin contact. Avoid eating, drinking and smoking when using the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage

and vessels

Store at moderate temperatures in dry, well ventilated area.

Conditions for safe storage

Requirements for storage rooms

ms

Storage in gateways, passages, stairways, hallways open to public, roofs,

attics, cellars and workrooms is not advisable.

Advice on storage compatability

No incompatibilities known.

7.3. Specific end use(s)

Recommendations

Cf. section 1.2

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#### 8.1. Control parameters

#### **DNEL / PNEC**

Recommended monitoring

NIOSH 0500: Total particulates not otherwise regulated.

procedures

OSHA PV2121: Gravimetric determination,

# 8.2. Exposure controls

## Precautionary measures to prevent exposure

Organizational measures to prevent exposure

Technical measures to prevent

exposure

before eating, drinking and lavatory use, and at the end of the work shift.

Use engineering controls to reduce air contamination to permissible exposure level.

Thoroughly clean hands, forearms, and face after handling of the product,

## Respiratory protection

Respiratory protection

Under normal conditions of use respiratory protection should not be required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2).

# Hand protection

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

#### Eye / face protection

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

#### Skin protection

Skin protection (except hands)

Generally regular work clothing sufficient. ..

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## Hygiene / Environmental

Specific hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

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# 9.1. Information on basic physical and chemical properties

Physical state

Colour Odour

Comments, pH (as supplied)

pH (aqueous solution)

Comments, Melting point / melting

range

Comments, Boiling point / boiling

range

Flash point

Comments, Flash point

Comments, Evaporation rate Flammability (solid, gas) Comments, Vapour pressure Comments, Vapour density

Specific gravity

Solubility in water

Spontaneous combustability Comments, Decomposition

temperature

Comments, Viscosity
Explosive properties
Oxidising properties

9.2. Other information

Softening point Content Of Voc

Spherical particles 0,2-0,4 mm. Solid.

Amber, and additional and another than

Almost odourless.

No data recorded.

Value: 6-8

Method of testing: aqueous suspension

No data recorded.

No data recorded,

Value: ≥:230 °C

Dry product beginning to inflame

No data recorded. No data recorded. No data recorded. No data recorded. Value: 1,2 g/cm³

Test temperature: 20 °C Unlimited miscible

Value; > 500 °C No data recorded,

No data recorded.

Not explosive

Not oxidizing

Comments: No data available Comments: No data available

#### Physical hazards

Comments, Particle size

No data recorded.

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## 10.1. Reactivity

Reactivity

Stable in normal conditions,

#### 10.2. Chemical stability

Stability

Stable under normal temperature conditions and recommended use.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No hazardous reactions under regular storage and handlings conditions known.

#### 10.4. Conditions to avoid

Conditions to avoid

Heating.

#### 10.5. Incompatible materials

Materials to avoid

Strong oxidising substances.

# 10.6. Hazardous decomposition products

Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx). Sulphurous gases (SOx). Organic decomposition products.

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# 11.1. Information on toxicological effects

#### Potential acute effects

Inhalation

No specific health warnings noted.

Skin contact

No specific health warnings noted. Prolonged contact may cause redness and

irritation,

Eye contact

No specific health warnings noted. Prolonged contact may cause redness

and/or tearing.

Ingestion

No specific health warnings noted. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed. Ingestion may

cause irritation of the gastrointestinal tract, vomiting and diarrhea.

Aspiration hazard

Depending on the product's properties - solid spherical particles of 0.2-0.4

mm - aspiration is technically not feasible.

#### Delayed effects / repeated exposure

Sensitisation

No specific health warnings noted,

STOT-single exposure STOT-repeated exposure

No data available, probably no subchronic toxicity No data available, probably no chronic toxicity

# Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity Mutagenicity No specific health warnings noted. No specific health warnings noted.

Teratogenic properties Reproductive toxicity No specific health warnings noted. No specific health warnings noted.

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## 12.1. Toxicity

## 12.2. Persistence and degradability

Persistence and degradability

The product is not biodegradable.

#### 12.3. Bioaccumulative potential

Bloaccumulative potential

The product is not bioaccumulating.

## 12.4. Mobility in soil

Mobility

Not relevant, due to the form of the product.

# 12.5. Results of PBT and vPvB assessment

PBT assessment results

This product does not contain any PBT or vPvB substances. 

# 12.6. Other adverse effects

Comments, Ozone depletion

Ozone depletion potential not known

potential

Comments, Photochemical ozone

Ozone formation potential not known

creation

disposal

Comments Global warming potential

Global greenhouse effect not known

# 13.1. Waste treatment methods

Specify the appropriate methods of

Dispose of waste and residues in accordance with local authority

requirements. No specific disposal method required.

Relevant waste regulation

USA: Federal waste regulation: 40 CFR 261

Canada: Canadian Environmental Protection Act (CEPA 1999; s.s., 1999, c.33)

Part 7 Controlling Pollution and Managing Wastes.

Mexico: Regulation of the General Law of Ecological Balance and

Environmental Protection in Hazardous Waste.

Product classified as hazardous

waste

Packaging classified as hazardous

waste

#### 14.1. UN number

Comments

No recommendation given.

# 14.2. UN proper shipping name

Comments

No recommendation given.

# 14.3. Transport hazard class(es)

Comments: 1997 1997 1997 1997 1997 No recommendation given. gay in the first that was a first the

#### 14.4. Packing group

Comments 1

No recommendation given.

# 14.5. Environmental hazards

Comments

No recommendation given.

# 14.6. Special precautions for user

Special safety precautions for user

No recommendation given.

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name

No recommendation given.

#### Additional information.

Additional information.

The product is not covered by international regulation on the transport of

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dangerous goods (IMDG, IATA, ADR/RID).

# ADR / RID - Other information

ADR Other information

No recommendation given.

# **ADN - Other information**

Other information

No recommendation given.

# IMDG / ICAO / IATA Other information

IMDG Other information

No recommendation given.

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

References (laws/regulations)

International Inventories

USA: All compounds are listed on the TSCA Inventory Canada: All components are listed either on the DSL or NDSL.

Regulations of the United States of America:

29 CFR 1910.1200, Subpart Z (Toxic and Hazardous Substances), App. A (Health Hazards), App B (Physical Criteria), App C (Allocation of Label Elements), App D (Minimum Information for a SDS), App E (Trade Secret), App F (Carcinogenicity).

US Federal Regulations:

#### **SARA 313:**

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

SARA 311/312 Hazard Categories: Acute Health Hazard Yes Chronic Health Hazard No Fire Hazard No Sudden release of pressure hazard No Reactive Hazard No

#### CWA (Clean Water Act):

This product 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:

This product does not contain any substances regulated by state right-to-know regulations.

Regulations of Canada:

Workplace Hazardous Materials Information System (WHMIS 2015), adoption to the Globally Harmonized System (GHS).

Hazardous Products Act (R.S.C., 1985, c.H-3), last amended Feb 11, 2015.

Hazardous Products Regulation (SOR / 2015-17), last amended Feb 11, 2015.

Regulations of Mexico:

Official Mexican Standard NMX-R-019-SCFI-2011, harmonized system of classification and hazard communication of chemicals [Globally Harmonized System (GHS)] (DOF, 29-VI-2011).

Official Mexican Standard NOM-018-STPS-2000, system for the identification and communication of hazards and risks from hazardous chemicals in the workplace (DOF, 27-X-2000).

# 15.2. Chemical safety assessment

Chemical safety assessment

Nο

performed and a second as

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Chemical Safety Assessment

No data recorded.

Exposure scenarios for mixture

Nο

**Exposure Scenario Comments** 

No recommendation given.

# SECTION (GEOTHER THOM: SECTION)

Supplier's notes

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

List of relevant H-phrases (Section

H315 Causes skin irritation.

2 and 3).

H319 Causes serious eye irritation.

Training advice

Not relevant.

Recommended restrictions on use

Not relevant.

User notes

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material, as far as not expressly stated otherwise.

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Responsible for safety data sheet

Unger Enterprises LLC

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