



## **EPIBOND® 1539 A US**

Version Revision Date: SDS Number: Date of last issue: 01/18/2019 2.0 11/13/2021 400001011668 Date of first issue: 05/02/2017

Print Date 02/23/2024

#### **SECTION 1. IDENTIFICATION**

Product name : EPIBOND® 1539 A US

Manufacturer or supplier's details

Company name of supplier : Huntsman Advanced Materials Americas LLC

Address : F

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA)

Telephone : Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: Global Product EHS AdMat@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Epoxy constituents

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

Short-term (acute) aquatic

hazard

: Category 2

Chronic aquatic toxicity : Category 2

**GHS** label elements

Hazard pictograms :





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:** 





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P261 Avoid breathing mist or vapours.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage: Not available Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international

regulations.

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Hazardous components**

| Chemical name                              | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| 2,2'-[(1-methylethylidene)bis(4,1-         | 1675-54-3  | 50 - 70               |
| phenyleneoxymethylene)]bisoxirane          |            |                       |
| 1,3-bis(2,3-epoxypropoxy)-2,2-             | 17557-23-2 | 20 - 30               |
| dimethylpropane                            |            |                       |
| silica, amorphous, fumed, crystalline free | 7631-86-9  | 10 - 20               |

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

Both 25068-38-6 and 1675-54-3 can be used to describe the epoxy resin which is produced through the reaction of bisphenol A and epichlorohydrin

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.





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If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

None known.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without

suitable training.

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Exercise caution when using a high volume water jet as it may

scatter and spread fire

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

Carbon oxides

Halogenated compounds

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This





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must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Prevent product from entering drains. **Environmental precautions** 

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

fire and explosion

Advice on protection against : Normal measures for preventive fire protection.

Advice on safe handling Do not breathe vapours or spray mist.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma. allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this

product.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national





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regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labelled containers.

Materials to avoid : For incompatible materials please refer to Section 10 of this

SDS.

Recommended storage

temperature

36 - 104 °F / 2 - 40 °C

Further information on

storage stability

Stable under normal conditions.

Stable under normal conditions.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                                 | CAS-No.   | Value type<br>(Form of<br>exposure) | Control parameters / Permissible concentration        | Basis     |
|--|-----------|-------------------------------------|---|-----------|
| silica, amorphous, fumed, crystalline free | 7631-86-9 | TWA (Dust)                          | 20 Million<br>particles per cubic<br>foot<br>(Silica) | OSHA Z-3  |
|  |           | TWA (Dust)                          | 80 mg/m3 /<br>%SiO2<br>(Silica)                       | OSHA Z-3  |
|  |           | TWA                                 | 6 mg/m3<br>(Silica)                                   | NIOSH REL |

## Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any

hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Material : butyl-rubber

Break through time : > 8 h

Material : Solvent-resistant gloves (butyl-rubber)





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Material : Nitrile rubber Break through time : 10 - 480 min

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

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

Appearance : paste

Colour : translucent

white

Odour : No data is available on the product itself.

Odour Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Melting point/freezing point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point :  $> 259 \, ^{\circ}\text{F} / > 126 \, ^{\circ}\text{C}$ 

Method: closed cup

Evaporation rate : < 1

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.





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Vapour pressure : < 1.333 hPa (68 °F / 20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1.15 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

: No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

No decomposition if stored and applied as directed.

Hazardous decomposition

products

carbon dioxide carbon monoxide

Halogenated compounds





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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : No data is available on the product itself.

exposure

**Acute toxicity** 

**Components:** 

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Acute oral : LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420 toxicityComponents

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: No mortality observed at this dose.

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Acute oral : LD50 (Rat): 4,500 mg/kg

toxicityComponents Assessment: The substance or mixture has no acute oral

toxicity

silica, amorphous, fumed, crystalline free:

: LD50 (Rat): > 5,000 mg/kg Acute oral

Method: OECD Test Guideline 401 toxicityComponents

Components:

silica, amorphous, fumed, crystalline free:

Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

silica, amorphous, fumed, crystalline free:

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

**Components:** 





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2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit Exposure time: 4 h

Assessment: Irritating to skin. Method: OECD Test Guideline 404

Result: Irritating to skin.

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Species: Rabbit Result: Irritating to skin.

silica, amorphous, fumed, crystalline free:

Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

#### Serious eye damage/eye irritation

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rabbit

Result: Irritating to eyes. Assessment: Irritating to eyes. Method: OECD Test Guideline 405

silica, amorphous, fumed, crystalline free:

Species: Rabbit

Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

#### Respiratory or skin sensitisation

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429

Result: The product is a skin sensitiser, sub-category 1B.

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane:

Exposure routes: Skin

Result: May cause sensitisation by skin contact.

Assessment: No data available

#### Germ cell mutagenicity

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation





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Result: positive

Test Type: reverse mutation assay Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Result: negative

silica, amorphous, fumed, crystalline free:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Genotoxicity in vivo : Test Type: in vivo assay

Species: Mouse (male)

Cell type: Germ Application Route: Oral Dose: 3333, 10000 mg/kg

Result: negative

Test Type: gene mutation test

Species: Rat (male) Cell type: Somatic Application Route: Oral

Dose: 50,250,500,1000 mg/kg bw/day Method: OECD Test Guideline 488

Result: negative

silica, amorphous, fumed, crystalline free:

Genotoxicity in vivo : Application Route: Inhalation

Dose: 50 mg/m3 Result: negative

Germ cell mutagenicity-

: No data available

Assessment

## Carcinogenicity

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male Application Route: Oral Exposure time: 24 month(s)

Dose: 0, 2, 15, or 100 mg/kg bw/day





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Frequency of Treatment: 7 days/week

NOAEL: 15 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Species: Mouse, male Application Route: Dermal Exposure time: 24 month(s)

Dose: 0, 0.1, 10, 100 mg/kg bw/day Frequency of Treatment: 3 days/week

NOEL: 0.1 mg/kg body weight

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Species: Rat, female Application Route: Dermal Exposure time: 24 month(s)

Dose: 0.1, 100, 1000 mg/kg bw/day Frequency of Treatment: 5 days/week

NOEL: 100 mg/kg body weight

Method: OECD Test Guideline 453

Result: negative

Species: Rat, female Application Route: Oral Exposure time: 24 month(s)

Dose: 0, 2, 15, or 100 mg/kg bw/day Frequency of Treatment: 7 days/week

NOAEL: 100 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

Species: Rat, females Application Route: Oral Exposure time: 24 month(s)

Dose: 0, 2, 15, or 100 mg/kg bw/day Frequency of Treatment: 7 days/week

NOEL: 2 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

Target Organs: Digestive organs

silica, amorphous, fumed, crystalline free:

Species: Rat, male and female Application Route: Oral Exposure time: 103 weeks Dose: 1800 - 3200 mg/kg Frequency of Treatment: 7 daily





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Method: OECD Test Guideline 453

Result: negative

Carcinogenicity - : No data available

Assessment

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

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.

#### Reproductive toxicity

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 50, 180, 540 or 750 milligram per kilogram

Duration of Single Treatment: 238 d Frequency of Treatment: 1 daily

General Toxicity - Parent: No-observed-effect level: 540

mg/kg body weight

General Toxicity F1: No-observed-effect level: 750 mg/kg

body weight

Symptoms: No adverse effects Method: OECD Test Guideline 416

Result: No effects on fertility and early embryonic

development were detected.

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Effects on foetal : Species: Rabbit, female development : Application Route: Dermal

Dose: 0, 30, 100 or 300 milligram per kilogram

Duration of Single Treatment: 28 d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

30 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

300 mg/kg body weight Method: Other guidelines Result: No teratogenic effects

Test Type: Pre-natal





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Species: Rabbit, female Application Route: Oral

Dose: 0, 20, 60 or 180 milligram per kilogram

Duration of Single Treatment: 13 d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

60 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

180 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Test Type: Pre-natal Species: Rat, female Application Route: Oral

Dose: 0, 60, 180 and 540 milligram per kilogram

Duration of Single Treatment: 10 d Frequency of Treatment: 1 daily

General Toxicity Maternal: No observed adverse effect level:

180 mg/kg body weight

Developmental Toxicity: No observed adverse effect level: >

540 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

silica, amorphous, fumed, crystalline free:

Species: Mouse Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,340 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,600 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,350 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available





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#### Repeated dose toxicity

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Species: Rat, male and female

NOAEL: 50 mg/kg

Application Route: oral (gavage) Exposure time: 14 Weeks Number of exposures: 7 d

Dose: 0, 50, 250, 1000 mg/kg/day Method: OECD Test Guideline 408

Species: Rat, male and female

NOAEL: >= 10 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 5 d

Dose: 0, 10, 100, 1000 mg/kg/day Method: OECD Test Guideline 411

Species: Mouse, male NOAEL: 100 mg/kg

Application Route: Skin contact Exposure time: 13 Weeks Number of exposures: 3 d Dose: 0, 1, 10, 100 mg/kg/day Method: OECD Test Guideline 411

silica, amorphous, fumed, crystalline free:

Species: Rat, male and female NOAEL: 7950 - 8980 mg/kg Application Route: Ingestion Exposure time: 4,320 h Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female NOEC: 4000 - 4500 mg/m3 Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 13 Weeks Number of exposures: 7 d

Method: OECD Test Guideline 413

Repeated dose toxicity -

Assessment

: No data available

## **Aspiration toxicity**

No data available

#### **Experience with human exposure**





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General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

**Neurological effects** 

No data available

**Further information** 

Ingestion: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

silica, amorphous, fumed, crystalline free:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

**Components:** 

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.8 mg/l

aquatic invertebrates Exposure time: 48 h

Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202

silica, amorphous, fumed, crystalline free:

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l

aquatic invertebrates Exposure time: 24 h





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Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

## **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to algae/aquatic : EC50: 11 mg/l

plants Exposure time: 72 h

Test Type: static test
Test substance: Fresh water
Method: EPA-660/3-75-009

NOEC: 4.2 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: EPA-660/3-75-009

silica, amorphous, fumed, crystalline free:

Toxicity to algae/aquatic

plants

: EL50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Toxicity to daphnia and other

: NOEC (Daphnia magna (Water flea)): 0.3 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water

Test substance: Fresh water Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: No data available

#### Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available





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Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

**Ecotoxicology Assessment** 

Acute aquatic toxicity : No data available

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20 mg/l

Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

**Components:** 

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Stability in water : Degradation half life(DT50): 4.83 d (77 °F / 25 °C) pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water





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Degradation half life(DT50): 7.1 d (77 °F / 25 °C) pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life(DT50): 3.58 d (77 °F / 25 °C) pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

Photodegradation : No data available

Impact on Sewage

**Treatment** 

: No data available

#### **Bioaccumulative potential**

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:BioaccumulationBioconcentration factor (BCF): 31Remarks: Does not bioaccumulate.

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane: Partition coefficient: n- : log Pow: 3.242 (77 °F / 25 °C)

octanol/water pH: 7.1

Method: OECD Test Guideline 117

#### Mobility in soil

Mobility : No data available

#### **Components:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane:

Distribution among : Koc: 445

environmental compartments

Stability in soil : No data available

#### Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

#### Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I





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Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological information - Product : An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging Empty remaining contents.

> Dispose of as unused product. Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**IATA-DGR** 

UN/ID No. UN 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN)

9 Class Packing group Ш

Labels Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction

(passenger aircraft)

964

964

**IMDG-Code** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY RESIN)

Class 9 Ш Packing group Labels EmS Code F-A, S-F

Marine pollutant yes





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

Not applicable for product as supplied.

#### **National Regulations**

**49 CFR** 

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(BISPHENOL A EPOXY RESIN)

Class : 9 Packing group : III

Labels : CLASS 9 ERG Code : 171 Marine pollutant : yes

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 311/312 Hazards : Respiratory or skin sensitisation

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

#### California Prop. 65

WARNING: This product can expose you to chemicals including 4,4'-isopropylidenediphenol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AIIC : On the inventory, or in compliance with the inventory

NZIoC : not determined

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory





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IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

#### **Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

## TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

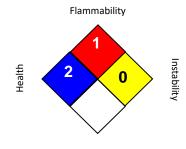
## US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

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NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA Z-3 / TWA : 8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.





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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.





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#### **SECTION 1. IDENTIFICATION**

: EPIBOND® 1539 B-10 US Product name

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA)

Telephone

: Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

: SDS@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Hardener

Restrictions on use : For industrial use only.

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

Short-term (acute) aquatic

hazard

: Category 2

Long-term (chronic) aquatic

hazard

: Category 2

**GHS** label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H315 Causes skin irritation.

> H317 May cause an allergic skin reaction. H318 Causes serious eye damage.





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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:** 

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage: Not available Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international

regulations.

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Hazardous components**

| Chemical name  | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and | 68082-29-1 | 30 - 50               |
| triethylenetetramine   |            |                       |
| Fatty acids, C18-unsatd., dimers, reaction   | 68410-23-1 | 30 - 50               |
| products with polyethylenepolyamines   |            |                       |
| Silicon, amorphous   | 7631-86-9  | 5 - 10                |
| Triethylenetetramine   | 112-24-3   | 2.5 - 3               |

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.





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Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

None known.

Notes to physician : Symptomatic and supportive therapy as needed. Following

severe exposure medical follow-up should be monitored for at

least 48 hours.

Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.





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Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept

upright to prevent leakage.

Keep in properly labelled containers.

Materials to avoid : For incompatible materials please refer to Section 10 of this

SDS.

Further information on

storage stability

Stable under normal conditions.





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

#### Components with workplace control parameters

| Components         | CAS-No.   | Value type<br>(Form of<br>exposure) | Control parameters / Permissible concentration        | Basis     |
|--------------------|-----------|-------------------------------------|---|-----------|
| Silicon, amorphous | 7631-86-9 | TWA (Dust)                          | 20 Million<br>particles per cubic<br>foot<br>(Silica) | OSHA Z-3  |
|                    |           | TWA (Dust)                          | 80 mg/m3 /<br>%SiO2<br>(Silica)                       | OSHA Z-3  |
|                    |           | TWA (Dust)                          | 20 Million<br>particles per cubic<br>foot<br>(Silica) | OSHA Z-3  |
|                    |           | TWA (Dust)                          | 80 mg/m3 /<br>%SiO2<br>(Silica)                       | OSHA Z-3  |
|                    |           | TWA                                 | 6 mg/m3<br>(Silica)                                   | NIOSH REL |

**Engineering measures** : Effective exhaust ventilation system

#### Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

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

Appearance : paste

Colour : blue

Odour : ammoniacal





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Odour Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : 559 °F / 293 °C

Method: Cleveland open cup

Evaporation rate : < 1

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : 1.05

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : No data is available on the product itself.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.





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Particle size : No data is available on the product itself.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability Stable under normal conditions.

Possibility of hazardous No hazards to be specially mentioned.

reactions

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

Hazardous decomposition

products

carbon dioxide

carbon monoxide

Nitrogen oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : No data is available on the product itself.

exposure

**Acute toxicity** 

: Acute toxicity estimate : > 5,000 mg/kg Acute oral toxicity - Product

Method: Calculation method

**Components:** 

Silicon, amorphous:

: LC50 (Rat, male and female): > 58.8 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity -

Product

: Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

## Skin corrosion/irritation

#### Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine:

Species: human skin





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Method: OECD Test Guideline 431

Result: Non-corrosive

Species: human skin Exposure time: 1 h

Assessment: Irritating to skin. Method: OECD Test Guideline 439

Result: irritating

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Species: human skin

Method: OECD Test Guideline 431

Result: Skin irritation

Silicon, amorphous: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Triethylenetetramine: Species: Rabbit

Assessment: Causes burns.

Method: OECD Test Guideline 404

Result: Causes burns.

## Serious eye damage/eye irritation

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine: Species: Rabbit

Result: Severe eye irritation

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Species: Rabbit

Result: Irreversible effects on the eye

Assessment: Corrosive

Method: OECD Test Guideline 405

Silicon, amorphous: Species: Rabbit

Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

Triethylenetetramine: Species: Rabbit Result: Corrosive Assessment: Corrosive

Method: OECD Test Guideline 405





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#### Respiratory or skin sensitisation

#### Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Probability or evidence of high skin sensitisation rate in humans

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

Triethylenetetramine: Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

#### Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Assessment: May cause an allergic skin reaction.

### Germ cell mutagenicity

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Micronucleus test Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471





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Result: negative

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Silicon, amorphous:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Triethylenetetramine:

Genotoxicity in vitro : Concentration: 0 - 200 µg/L

Metabolic activation: negative Method: OECD Test Guideline 482

Result: negative

Components:

Silicon, amorphous:

Genotoxicity in vivo : Application Route: Inhalation

Dose: 50 mg/m3 Result: negative

Triethylenetetramine:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Dose: 0 - 600 mg/kg

Method: OECD Test Guideline 474

Result: negative

Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Germ cell mutagenicity-

: In vitro tests did not show mutagenic effects

Assessment

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

Silicon, amorphous:

Species: Rat, male and female





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Application Route: Oral Exposure time: 103 weeks Dose: 1800 - 3200 mg/kg Frequency of Treatment: 7 daily Method: OECD Test Guideline 453

Result: negative

Triethylenetetramine: Species: Mouse, male Application Route: Dermal

Dose: 42 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 451

Result: negative

Species: Mouse, male Application Route: Dermal Exposure time: 104 weeks

Dose: 16.8 mg/kg

Frequency of Treatment: 3 days/week Method: OECD Test Guideline 451

Carcinogenicity -

Assessment

: No data available

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**ACGIH** No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

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.

## Reproductive toxicity

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: 0, 100, 300, 1000 mg/kg bw/d Frequency of Treatment: 7 days/week

General Toxicity - Parent: No observed adverse effect level:

1,000 mg/kg body weight

Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Species: Rat, male and female





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Application Route: Other

General Toxicity - Parent: No observed adverse effect level:

1,000 mg/kg body weight

Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

**Components:** 

Silicon, amorphous: Effects on foetal development

: Species: Mouse

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,340 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,600 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,350 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Triethylenetetramine:

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

> 750 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit

Application Route: Dermal

General Toxicity Maternal: No observed adverse effect level:

125 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available





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#### Repeated dose toxicity

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Species: Rat, male and female

NOAEL: 1000 mg/kg NOAEL: 1,000 mg/kg Application Route: Oral Exposure time: 14 days

Number of exposures: Once daily Dose: 0, 100, 300, 1000 mg/kg bw/d

Group: yes

Method: OECD Test Guideline 422

Target Organs: Liver

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Species: Rat, male and female

NOAEL: 1000 mg/kg

Application Route: Ingestion Exposure time: 6 Weeks Number of exposures: 7 d Method: Subchronic toxicity

Silicon, amorphous:

Species: Rat, male and female NOAEL: 7950 - 8980 mg/kg Application Route: Ingestion Exposure time: 4,320 h Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female

: 4000 - 4500 mg/m3 Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 13 Weeks Number of exposures: 7 d

Method: OECD Test Guideline 413

Triethylenetetramine:

Species: Rat, male and female

NOAEL: 50 mg/kg/d

Application Route: Ingestion Exposure time: 26 Weeks Number of exposures: 7 d Method: Subchronic toxicity

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Repeated dose toxicity - : No adverse effect has been observed in chronic toxicity





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Assessment tests.

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

**Neurological effects** 

No data available

**Further information** 

Ingestion: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

### Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 7.07 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Toxicity to fish : LC50: 7.07 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Silicon, amorphous:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l





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Exposure time: 96 h
Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Triethylenetetramine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 330 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: Fish Acute Toxicity Test

**Components:** 

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 7.07 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 5.18 mg/l Exposure time: 1,152 h

Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Silicon, amorphous:

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l

Exposure time: 24 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Triethylenetetramine:

aquatic invertebrates

Toxicity to daphnia and other

: EC50 (Daphnia magna (Water flea)): 31.1 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2.

**Components:** 

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Toxicity to algae/aquatic

plants

: EC50 (Selenastrum capricornutum (green algae)): 4.34 mg/l

Exposure time: 72 h
Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

EC10 (Selenastrum capricornutum (green algae)): 1.78 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201





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Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Toxicity to algae/aquatic

: ErC50 (Selenastrum capricornutum (green algae)): 4.11 mg/l Exposure time: 72 h

plants

Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Silicon, amorphous:

Toxicity to algae/aquatic

plants

: EL50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Triethylenetetramine:

Toxicity to algae/aquatic

plants

: ErC50 (Selenastrum capricornutum (green algae)): 20 mg/l

Exposure time: 72 h

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

## **Components:**

Triethylenetetramine:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC10 (Daphnia magna (Water flea)): 1.9 mg/l

Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 202

M-Factor (Chronic aquatic

toxicity)

: No data available

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Toxicity to microorganisms : EC50 (activated sludge): 384 mg/l

Exposure time: 3 h Test Type: static test

Method: OECD Test Guideline 209

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Toxicity to microorganisms : EC0: > 100 mg/l

Method: DIN 38412

Triethylenetetramine:

Toxicity to microorganisms : EC50 (activated sludge): 800 mg/l

Exposure time: 0.5 h Test Type: static test





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Test substance: Fresh water

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

**Ecotoxicology Assessment** 

**Components:** 

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

#### Persistence and degradability

### Components:

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Result: Not readily biodegradable.

Biodegradation: 0 - 70 % Exposure time: 74 d

Method: OECD Test Guideline 301B

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Biodegradability : Inoculum: activated sludge

Concentration: 9 mg/l

Result: Inherently biodegradable.

Biodegradation: 100 % Exposure time: 74 d

Method: OECD Test Guideline 301B

Triethylenetetramine:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 162 d

Method: OECD Test Guideline 301D

Inoculum: activated sludge Result: Not readily biodegradable.

Biodegradation: 20 % Exposure time: 84 d





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Method: Inherent Biodegradability: Modified SCAS Test

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

#### **Bioaccumulative potential**

#### **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Bioaccumulation : Bioconcentration factor (BCF): 77.4

Remarks: Does not bioaccumulate.

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:

Bioaccumulation : Bioconcentration factor (BCF): 1.85 - 2.69

Test substance: Fresh water

## **Components:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine:

Partition coefficient: n- : log Pow: 10.34

octanol/water Method: OECD Test Guideline 117

Triethylenetetramine:

Partition coefficient: n- : log Pow: -2.65 (68 °F / 20 °C) octanol/water : Method: OECD Test Guideline 117

Mobility in soil

Mobility : No data available

### **Components:**





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Triethylenetetramine:

Distribution among : Koc: 1584.9 - 5012

environmental compartments Method: OECD Test Guideline 106

Stability in soil : No data available

Other adverse effects

Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological information - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.





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#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**IATA** 

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)

Class : 9
Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

craft)

Packing instruction (passenger aircraft)

**IMDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S

: 964

: 964

(DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

#### **National Regulations**

**DOT Classification** 

UN/ID/NA number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171

Marine pollutant : yes(DIMER FATTY ACID (C18) POLYAMIDOAMINE RESIN)

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.





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#### **SECTION 15. REGULATORY INFORMATION**

# EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

| Components          | CAS-No.   | Component RQ | Calculated product RQ |
|---------------------|-----------|--------------|-----------------------|
|                     |           | (lbs)        | (lbs)                 |
| xylenes             | 1330-20-7 | 100          | *                     |
| ethylbenzene        | 100-41-4  | 1000         | *                     |
| 2-methylpropan-1-ol | 78-83-1   | 5000         | *                     |
| butan-1-ol          | 71-36-3   | 5000         | *                     |
| isobutyl acetate    | 110-19-0  | 5000         | *                     |
| n-butyl acetate     | 123-86-4  | 5000         | *                     |

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitisation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

#### California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### The components of this product are reported in the following inventories:

CH INV : The formulation contains substances listed on the Swiss

Inventory

DSL : All components of this product are on the Canadian DSL

AICS : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory





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#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

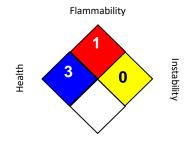
# US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard.

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

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.

Sources of key data used to compile the Safety Data

: Information taken from reference works and the literature.,

Information derived from practical experience.

Sheet

Revision Date : 04/25/2019

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA Z-3 / TWA : 8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.





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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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