



EPIBOND® 420 A US

Version Revision Date: SDS Number: Date of last issue: 10/16/2018 2.0 04/06/2022 400001009160 Date of first issue: 02/20/2017

Print Date 02/23/2024

SECTION 1. IDENTIFICATION

Product name : EPIBOND® 420 A US

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)

: Non-Emergency: (800) 257-5547

E-mail address of person responsible for the SDS

Telephone

: 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

Restrictions on use : For industrial use only.

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.





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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

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-phenyleneoxymethylene)]bisoxirane	1675-54-3	90 - 100
Glass, oxide, chemicals	65997-17-3	0.1 - 1

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.





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Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

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 : 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 : Use extinguishing measures that are appropriate to local





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methods circumstances and the surrounding environment.

Further information Collect contaminated fire extinguishing water separately. This

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.

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

fire and explosion

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

Advice on safe handling 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

regulations.

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

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.





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Recommended storage

temperature

: 36 - 104 °F / 2 - 40 °C

Further information on

storage stability

Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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

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 : yellow

Odour : odourless





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

pH : substance/mixture is non-soluble (in water)

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

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

Flash point : 360 °F / 182 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

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 : > 1.3 hPa (68 °F / 20 °C)

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

Relative density : 1.1 (77 °F / 25 °C)

Density : 1.1 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility : practically insoluble (68 °F / 20 °C)

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 : $> 302 \, ^{\circ}\text{F} \, / > 150 \, ^{\circ}\text{C}$

Method: estimated

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, dynamic : ca. 180,000 mPa.s (77 °F / 25 °C)

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

reactions

: No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents

Hazardous decomposition

products

: carbon dioxide carbon monoxide

Halogenated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

Method: Calculation method

Components:

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

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: No mortality observed at this dose.

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

Skin corrosion/irritation

Components:

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.





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Glass, oxide, chemicals:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404
Result : Normally reversible injuries

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

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.

Glass, oxide, chemicals:

Exposure routes : Skin Species : Other

Result : Does not cause skin sensitisation.

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

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

Genotoxicity in vivo : Test Type: in vivo assay

Species: Mouse (male) Cell type: Germ Application Route: Oral Dose: 3333, 10000 mg/kg





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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

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

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





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Exposure time 24 month(s)

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

Frequency of Treatment 7 days/week **NOEL** 2 mg/kg bw/day

Method **OECD Test Guideline 453**

Result negative

Target Organs Digestive organs

IARC Group 2A: Probably carcinogenic to humans

> Glass, oxide, chemicals 65997-17-3

(glass)

Group 2B: Possibly carcinogenic to humans

Glass, oxide, chemicals 65997-17-3

(special-purpose fibres)

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: NOEL: 540 mg/kg body weight General Toxicity F1: NOEL: 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.

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: NOAEL: 30 mg/kg body weight Developmental Toxicity: NOAEL: 300 mg/kg body weight

Method: Other guidelines Result: No teratogenic effects

Test Type: Pre-natal 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: NOAEL: 60 mg/kg body weight





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Developmental Toxicity: NOAEL: 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: NOAEL: 180 mg/kg body weight Developmental Toxicity: NOAEL: > 540 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

STOT - single exposure

No data available

STOT - repeated exposure

No data available

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

Glass, oxide, chemicals:

Species : Rat, male
LOEC : 2.4 mg/m3
Test atmosphere : dust/mist
Exposure time : 2,160 h
Number of exposures : 6 h





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Method : Directive 67/548/EEC, Annex, B.29

Aspiration toxicity

No data available

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

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

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.8 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50: 11 mg/l

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

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

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

Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Toxicity to microorganisms : IC50 (activated sludge): > 100 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water





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Ecotoxicology Assessment

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

Glass, oxide, chemicals:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l

Exposure time: 96 h
Test Type: Other guidelines
Test substance: Fresh water

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 72 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EgC50 (Selenastrum capricornutum (green algae)): > 1,000

mg/l

Exposure time: 72 h
Test Type: semi-static test

Method: OECD Test Guideline 201

Persistence and degradability

Components:

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

Biodegradability : 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

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

Method: OECD Test Guideline 111

Remarks: Fresh water

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

Method: OECD Test Guideline 111

Remarks: Fresh water

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

Method: OECD Test Guideline 111

Remarks: Fresh water

Bioaccumulative potential

Components:

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

Bioaccumulation : Bioconcentration factor (BCF): 31

Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 3.242 (77 °F / 25 °C)





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octanol/water pH: 7.1

Method: OECD Test Guideline 117

Mobility in soil

Components:

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

Distribution among : Koc: 445

environmental compartments

Other adverse effects

Product:

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

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

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.

964

(BISPHENOL A EPOXY RESIN)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 964





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(passenger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BISPHENOL A EPOXY 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

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

Remarks : Shipment by ground under DOT is non-regulated; however it

may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

Remarks : 49CFR: no dangerous good in non-bulk packaging

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).





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California Prop. 65

WARNING: This product can expose you to chemicals including methanol, 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 : On the inventory, or in compliance with the inventory

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

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.





EPIBOND® 420 A US

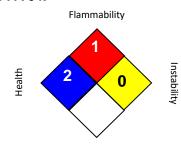
Version Revision Date: SDS Number: Date of last issue: 10/16/2018 2.0 04/06/2022 400001009160 Date of first issue: 02/20/2017

Print Date 02/23/2024

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

Revision Date : 04/06/2022

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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.

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.

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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

Product name : EPIBOND® 420 B US

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

Telephone

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA): 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 : Hardener

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

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

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**

P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.





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

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/ doctor.

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.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

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

Chemical nature : Amines

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
3,3'-oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	50 - 70

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.

Get medical attention if symptoms occur.

If inhaled If inhaled, remove to fresh air.





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Get medical attention if symptoms occur.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

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.

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 : Carbon dioxide (CO2)





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products Carbon monoxide

Nitrogen oxides (NOx)

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

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.

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 : 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.

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

regulations.

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

place.

Observe label precautions.





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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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

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 : liquid

Colour : blue

Odour : ammoniacal

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

pH : No data is available on the product itself.





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

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

Flash point : 230 °F / 110 °C

Method: closed cup

Evaporation rate : No data is available on the product itself.

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 : < 1.4 hPa (68 °F / 20 °C)

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

Relative density : 1 (77 °F / 25 °C)

Density : 1 g/cm3 (77 °F / 25 °C)

Solubility(ies)

Water solubility : slightly soluble (68 °F / 20 °C)

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 : > 302 °F / > 150 °C

Method: estimated

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, dynamic : ca. 18,000 mPa.s (77 °F / 25 °C)

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





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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 : Strong acids

Strong bases

Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide carbon monoxide Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 4,031 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 4,031 mg/kg

Method: Calculation method

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Acute oral toxicity : LD50 (Rat, male and female): 2,850 - 3,160 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is low toxic after single

ingestion.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,150 mg/kg

Method: OECD Test Guideline 402

Assessment: The component/mixture is low toxic after single

contact with skin.

Skin corrosion/irritation

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Species : Rabbit

Method : Other guidelines

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):





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Species : Rabbit

Result : Risk of serious damage to eyes. Assessment : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Exposure routes : Skin Species : Other

Result : May cause sensitisation by skin contact.

Assessment : May be harmful if swallowed or in contact with skin., Causes

severe skin burns and eye damage. May cause an allergic skin reaction.

Germ cell mutagenicity

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Micronucleus test

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Germ cell mutagenicity -

Assessment

In vitro tests did not show mutagenic effects

Carcinogenicity

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.

OSHANo 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.





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Reproductive toxicity

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: 100,300,1000 (600 day7) mg/kg Frequency of Treatment: 7 days/week

General Toxicity - Parent: NOAEL: 600 mg/kg body weight

Fertility: NOAEL: 600 mg/kg body weight

Early Embryonic Development: NOAEL: 600 mg/kg body

weight

Method: OECD Test Guideline 422

Reproductive toxicity -

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

STOT - single exposure

No data available

Assessment

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Species : Rat, male and female

NOAEL : < 100 mg/kg Application Route : oral (gavage)

Number of exposures : daily

Dose : 100, 300, 1000(600,day7)mg/kg

Control Group : yes

Method : OECD Test Guideline 422

Repeated dose toxicity -

ity - : May be harmful if swallowed or in contact with skin., Causes

Assessment severe skin burns and eye damage.

No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

No data available

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available





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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l

Exposure time: 96 h Test Type: static test Method: DIN 38412

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 218.16 mg/l

Exposure time: 48 h Test Type: static test

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

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l

Exposure time: 72 h Test Type: static test Method: DIN 38412

Toxicity to microorganisms : (Pseudomonas putida): 221.9 mg/l

End point: Growth rate Exposure time: 17 h Test Type: static test Method: DIN 38412

Persistence and degradability

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Biodegradability : Inoculum: activated sludge

Concentration: 30 mg/l

Result: Not readily biodegradable.

Biodegradation: < 10 % Exposure time: 60 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine):

Partition coefficient: n- : log Pow: -1.25 (77 °F / 25 °C)

octanol/water pH: 11.1

Method: OECD Test Guideline 107

Mobility in soil

No data available

Other adverse effects

Product:

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





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Protection of Stratospheric Ozone - CAA Section 602 Class I

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).

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.

Empty remaining contents. Contaminated packaging

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 2735

Proper shipping name Amines, liquid, corrosive, n.o.s.

(TRIOXATRIDECANEDIAMINE)

Class 8 Packing group Ш

Corrosive Labels Packing instruction (cargo 855

aircraft)

Packing instruction

(passenger aircraft)

851

IMDG-Code

UN 2735 UN number

AMINES, LIQUID, CORROSIVE, N.O.S. Proper shipping name

(TRIOXATRIDECANEDIAMINE)

Class 8 Ш Packing group Labels 8 F-A, S-B EmS Code

Marine pollutant

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 2735

Proper shipping name Amines, liquid, corrosive, n.o.s.

(TRIOXATRIDECANEDIAMINE)





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Class : 8 Packing group : II

Labels : CORROSIVE

ERG Code : 153 Marine pollutant : no

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

This material does not contain any components with a CERCLA 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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

DSL : This product contains one or several components listed in the

Canadian NDSL.

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

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

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

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

PICCS : Not in compliance with the inventory

IECSC : Notified. Allowed to be imported / manufactured only by the

notifiers. Please contact your Huntsman sales representative

for more information.

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

TSCA : All substances listed as active on the TSCA inventory





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

No substances are subject to a Significant New Use Rule.

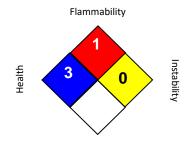
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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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

Revision Date : 04/06/2022

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toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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