

SAFETY DATA SHEET

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RENLEASE® 78-2 US

Version	Revision Date:	SDS Number:	Date of last issue:
1.2	02/19/2019	400001012728	04/25/2018
			Date of first issue: 04/25/2018

SECTION 1. IDENTIFICATION

Product name : RENLEASE® 78-2 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)
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 : Use in binder and release agents



SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2
Carcinogenicity : Category 2
Reproductive toxicity : Category 2
Specific target organ toxicity - single exposure : Category 3
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Eyes, Skin, Respiratory system, Central nervous system, Liver, Kidney)
Aspiration hazard : Category 1
Flammable aerosols : Category 1
Gases under pressure : Compressed gas

GHS label elements

Hazard pictograms :



Signal word : Danger

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- Hazard statements** :
- H315 Causes skin irritation.
 - H351 Suspected of causing cancer.
 - H361 Suspected of damaging fertility or the unborn child.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H304 May be fatal if swallowed and enters airways.
 - H222 Extremely flammable aerosol.
 - H280 Contains gas under pressure; may explode if heated.
- Precautionary statements** :
- Prevention:**
- P201 + P202 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - P211 Do not spray on an open flame or other ignition source.
 - P251 Do not pierce or burn, even after use.
 - P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 - P264 Wash skin thoroughly after handling.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 - P261 Avoid breathing mist or vapours.
 - P261 Avoid breathing gas.
 - P261 Avoid breathing dust.
- Response:**
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 - P321 Specific treatment (see supplemental first aid instructions on this label).
 - P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 - P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 - P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 - P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 - P331 Do NOT induce vomiting.
 - P362 Take off contaminated clothing and wash before reuse.
- Storage:**
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 - P405 Store locked up.
 - P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Disposal:**
- P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
n-hexane	110-54-3	50 - 70
Petroleum gases, liquefied, sweetened	68476-86-8	30 - 50
ethylbenzene	100-41-4	0.1 - 0.25

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. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
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	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. 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.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

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Carbon dioxide (CO₂)
 Dry chemical

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.
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
 For safety reasons in case of fire, cans should be stored separately in closed containments.
 Use a water spray to cool fully closed containers.

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.
 Ensure adequate ventilation.
 Remove all sources of ignition.
 Evacuate personnel to safe areas.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
 Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
 Use only explosion-proof equipment.
 Keep away from open flames, hot surfaces and sources of ignition.

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

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application area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.
Container may be opened only under exhaust ventilation hood.

Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Prevent unauthorized access.
No smoking.
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.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : 36 - 104 °F / 2 - 40 °C

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
n-hexane	110-54-3	TWA	50 ppm	ACGIH
		TWA	500 ppm 1,800 mg/m ³	OSHA Z-1
ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m ³	OSHA Z-1

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

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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aerosol containing a compressed gas
Colour	: cloudy
Odour	: aromatic
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	: -42.99 °F / -41.66 °C
Flash point	: -141.5 °F / -96.4 °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	: 6 %(V)
Lower explosion limit / Lower flammability limit	: 1 %(V)
Vapour pressure	: 551.6 - 620.5 kPa (68 °F / 20 °C)
Relative vapour density	: No data is available on the product itself.
Relative density	: 0.664
Density	: 0.64 g/cm3
Solubility(ies)	
Water solubility	: negligible
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	: No data is available on the product itself.

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decomposition temperature
(SADT)

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 decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Do not expose to temperatures above:

Heat, flames and sparks.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity**Components:**

n-hexane:

Acute oral toxicityComponents : LD50 (Rat): 25,000 - 32,400 mg/kg

ethylbenzene:

Acute oral toxicityComponents : LD50 (Rat): 3,500 - 5,460 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Components:

n-hexane:

Acute inhalation toxicity : LC50 (Rat): 135 - 169 mg/l
Exposure time: 4 h
Test atmosphere: vapour

ethylbenzene:

Acute inhalation toxicity : LC50 (Rat): 17.3 mg/l

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Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Components:

ethylbenzene:
Acute dermal toxicity : LD50 (Rabbit): 15,400 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation**Components:**

n-hexane:
Result: Skin irritation

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Assessment: No data available

Germ cell mutagenicity**Components:**

ethylbenzene:
Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Components:

ethylbenzene:
Genotoxicity in vivo : Method: OECD Test Guideline 474
Result: negative

Method: OECD Test Guideline 486
Result: negative

Carcinogenicity

No data available

Carcinogenicity - Assessment : No data available

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IARCGroup 2B: Possibly carcinogenic to humans
ethylbenzene**ACGIH**

Confirmed animal carcinogen with unknown relevance to humans

ethylbenzene

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:**

n-hexane:

Effects on fertility

: Species: Rat, male
Application Route: Inhalation
Result: Increase of early resorptions

ethylbenzene:

General Toxicity - Parent: No observed adverse effect level:
500 ppm
Method: OECD Test Guideline 416**Components:**

ethylbenzene:

Effects on foetal
development: General Toxicity Maternal: No observed adverse effect level:
500 ppm
Teratogenicity: No observed adverse effect level: 2,000 ppm
Developmental Toxicity: No observed adverse effect level:
500 ppm**Components:**

n-hexane:

Reproductive toxicity -
Assessment: Some evidence of adverse effects on sexual function and
fertility, based on animal experiments.**STOT - single exposure****Components:**

n-hexane:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure**Components:**

n-hexane:

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Exposure routes: Inhalation

Target Organs: Central nervous system, muscle, Peripheral nervous system, Testes

Assessment: May cause damage to organs through prolonged or repeated exposure.

ethylbenzene:

Exposure routes: Inhalation

Target Organs: Lungs, Liver, Kidney, Central nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:**

ethylbenzene:

Species: Rat, male and female

NOAEL: 75 mg/kg bw

Application Route: oral (gavage)

Exposure time: 28 d

Dose: 75/250/750 mg/kg bw

Group: yes

Method: OECD Test Guideline 407

Target Organs: Liver

Remarks: Subacute toxicity

Species: Rat, male and female

NOAEL: 75 mg/kg bw

Application Route: oral (gavage)

Exposure time: 90 d

Dose: 75/250/750 mg/kg bw

Group: yes

Method: OECD Test Guideline 408

Species: Mouse, male and female

NOAEL: 3.4 mg/l

Application Route: Inhalation

Exposure time: 28 d

Dose: 0,4/1,7/3,4 mg/L

Group: yes

Method: OECD Test Guideline 412

Species: Rat, male and female

NOAEL: 1084

NOAEL: mg/m3

Application Route: inhalation (vapour)

Exposure time: 104 week

Dose: 325/1084/3251 mg/m3

Group: yes

Method: OECD Test Guideline 453

Species: Rat, male and female

NOAEL: 4.74 mg/l

Application Route: Inhalation

Exposure time: 13 week

Dose: 0,47/1,18/2,37/3,55/4,74 mg/L

Group: yes

Method: OECD Test Guideline 413

Target Organs: Liver

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Species: Mouse, male and female
NOAEL: 3251
NOAEL: mg/m3
Application Route: Inhalation
Exposure time: 104 week
Dose: 325/1084/3251 mg/m3
Group: yes
Method: OECD Test Guideline 453

Species: Rabbit, male and female
NOAEL: 6.8 mg/l
Application Route: Inhalation
Exposure time: 28 d
Dose: 1,7/3,4/6,8 mg/L
Group: yes
Method: OECD Test Guideline 412

Repeated dose toxicity - : No data available
Assessment

Aspiration toxicity

Components:

n-hexane:
May be fatal if swallowed and enters airways.

ethylbenzene:
May be fatal if swallowed and enters airways.

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

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Further information**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:**

ethylbenzene:
Toxicity to fish : LC50: 4.2 mg/l
Exposure time: 96 h

LC50: 9.2 mg/l
Exposure time: 96 h

LC50: 12.1 mg/l
Exposure time: 96 h

LC50: 5.1 mg/l
Exposure time: 96 h

Components:

n-hexane:
Toxicity to daphnia and other : EC50: 3.88 mg/l
aquatic invertebrates Exposure time: 48 h

ethylbenzene:
Toxicity to daphnia and other : EC50: 1.81 - 2.38 mg/l
aquatic invertebrates Exposure time: 48 h

Components:

ethylbenzene:
Toxicity to algae/aquatic : IC50: 4.6 mg/l
plants Exposure time: 72 h

EC50: 3.6 mg/l
Exposure time: 96 h

NOEC: 3.4 mg/l
Exposure time: 96 h

EC50: 7.7 mg/l
Exposure time: 96 h

M-Factor (Acute aquatic : No data available
toxicity)

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Components:

ethylbenzene:
Toxicity to fish (Chronic toxicity) : NOEL: 0.96 mg/l
Exposure time: 7 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : No data available

Toxicity to microorganisms : No data available

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:**

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

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

Components:

ethylbenzene:
Chronic aquatic toxicity : Harmful 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:**

ethylbenzene:
Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d

Biochemical Oxygen Demand (BOD) : No data available

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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:

ethylbenzene:
Bioaccumulation : Bioconcentration factor (BCF): 1.9

Components:

n-hexane:
Partition coefficient: n-octanol/water : log Pow: 3.9 - 4.11

ethylbenzene:
Partition coefficient: n-octanol/water : log Pow: 3.15

Mobility in soil

Mobility : No data available

Components:

n-hexane:
Distribution among environmental compartments : Koc: 1250 - 4100

ethylbenzene:
Distribution among environmental compartments : Koc: 520

Stability in soil : No data available

Other adverse effects

Environmental fate and pathways : No data available

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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.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA

UN/ID No.	: UN 1950
Proper shipping name	: Aerosols, flammable
Class	: 2.1
Packing group	: Not assigned by regulation

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Labels : Flammable Gas
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203

IMDG

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

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 : ORM-D
Proper shipping name : ORM-D

Class : ORM
Packing group : Not assigned by regulation
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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
n-hexane	110-54-3	5000	10000
xylenes	1330-20-7	100	*
ethylbenzene	100-41-4	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Gases under pressure
Skin corrosion or irritation
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)

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SARA 313

: The following components are subject to reporting levels established by SARA Title III, Section 313:

n-hexane	110-54-3	>= 50 - < 70 %
ethylbenzene	100-41-4	>= 0.1 - < 1 %

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

n-hexane	110-54-3
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California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, 2-phenylpropene, which is/are known to the State of California to cause cancer, and n-hexane, 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:

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	: Not in compliance with the inventory
TCSI	: Not in compliance with the inventory
TSCA	: On the inventory, or in compliance with the inventory

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.

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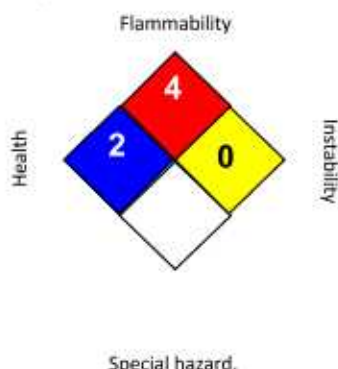
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		1

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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ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
OSHA Z-1 / TWA : 8-hour time weighted average

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