Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products

Regulations (HPR) WHMIS 2015

Date of issue: 12/28/2018 Revision date: 03/17/2020 Version: EH-CPT-2020a

SECTION 1: Identification

Identification

Product form: MixtureProduct name: CPT HardenerProduct code: EH-CPT, EH-CPT-D

Relevant identified uses of the substance or mixture and uses advised against
Recommended use : Curing agent for epoxy resins

Details of the supplier of the safety data sheet

Manufacturer Distributor

Gougeon Brothers, Inc 100 Patterson Ave. Bay City, MI 48706 - U.S.A. T 310-882-2120 or 989-684-7286

Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazard identification

Classification of the substance or mixture

Skin Corr. 1C Eye Dam. 1 Skin Sens. 1 Aquatic Acute 3 Aquatic Chronic 2

Label elements

Hazard pictograms (GHS)





GHS09

GHS07

Signal word (GHS)

Danger

Hazard statements (GHS)

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS)

Do not breathe dust, fume, gas, mist, spray, vapours. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection, face protection, protective clothing, protective gloves. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Store locked up. Dispose of contents/container according to local, state, national and international regulations.

Other hazards

No additional information available

Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

Substances

Not applicable

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Mixtures

Name	Product identifier	%
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	(CAS-No.) 68082-29-1	30 - 60
Isophoronediamine	(CAS-No.) 2855-13-2	30 - 60
1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane	(CAS-No.) 26950-63-0	15 - 40
Triethylenetetramine	(CAS-No.) 112-24-3	5 - 10
Dimethyl silicone polymer with silica	(CAS-No.) 67762-90-7	5 - 10
Silica, amorphous, fumed, crystalline-free	(CAS-No.) 112945-52-5	1 - 5

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures after inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

First-aid measures after skin contact : If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER

or doctor.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do not induce vomiting without medical advice. Never give

anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Causes burns to the respiratory system.

Symptoms/effects after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an

allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat,

and gastrointestinal tract.

Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Foam. Carbon dioxide. Dry chemical.Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides.

Amines. Ammonia. Nitric acid. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. Heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust.

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

Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to

unnecessary and unprotected personnel.

For non-emergency personnel

No additional information available

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For emergency responders

No additional information available

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

For containment

: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. Do not use sawdust or other combustible material to absorb spilled material.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Wear personal protective equipment. When mixed with epoxy resin this product causes an exothermic reaction, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

Hygiene measures

: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Keep container tightly closed. Store in dry, cool, well-ventilated area. Avoid high temperatures. Protect from moisture. Store locked up. Protect from sunlight.

Storage temperature : $40 - 90 \,^{\circ}\text{F} / 4 - 32 \,^{\circ}\text{C}$

SECTION 8: Exposure controls/personal protection

Control parameters

Fatty acids, C18-uns	saturated, dimers, polymers with tall-oil fatty acids	s and triethylenetetramine (68082-29-1)
Not applicable		
Isophoronediamine	(2855-13-2)	
Not applicable		
1,2-Ethanediamine,	N,N'-bis(2-aminoethyl)-, polymer with methyloxira	ne (26950-63-0)
Not applicable		
Triethylenetetramine	e (112-24-3)	
AIHA WEEL	WEEL TWA (ppm; mg/m³)	1 ppm ; 6 mg/m³ ; Absorbed via skin
Dimethyl silicone po	olymer with silica (67762-90-7)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ inhalable 3 mg/m³ respirable fraction
OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³ Amorphous silica 15 mg/m³ Total dust 5 mg/m³ respirable fraction
Silica, amorphous, f	umed, crystalline-free (112945-52-5)	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (Inhalable) 3 mg/m³ (Respirable)
OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³ (Amorphous silica) 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)

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Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Wear eye/face protection.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection

must be based on known or anticipated exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure controls: Avoid release to the environment.

Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state: GelAppearance: GelColour: Blue

Odour : Ammonia like
Odour threshold : No data available

pH : 11.1

Melting point: No data availableFreezing point: No data available

Boiling point : > 400 °F / (204 °C) (760 mmHg) estimated based on similar product.

Flash point : > 200 °F / (93 °C) estimated based on ASTM D92 test results from similar product.

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available

Vapour pressure : < 1 (mmHg @ 20 °C / 73 °F) (estimated based on ingredient data).

Relative vapour density at 20 °C : No data available
Relative density : 1.01 (water = 1)
Solubility : Appreciable.
Partition coefficient n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

Viscosity, kinematic : Gel

 Viscosity, dynamic
 : No data available

 Explosive limits
 : No data available

 Explosive properties
 : No data available

 Oxidising properties
 : No data available

Other information

 VOC content
 : 1.07 g/l (KNT/CPT)

 Bulk density
 : 8.42 lb/gal (0.98 kg/L)

SECTION 10: Stability and reactivity

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use. A mass of more than one

pound of product plus an epoxy resin will cause irreversible polymerization with significant heat

buildup and pressure. Heating will cause a rise in pressure with a risk of bursting.

Conditions to avoid : Heat. Direct sunlight. Incompatible materials.

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Incompatible materials : Acids. Oxidizing materials. Halogenated compounds.

Hazardous decomposition products : May include, and are not limited to: oxides of carbon. Toxic fumes. Toxic gases. Nitrogen

oxides. Amines. Ammonia. Nitric acid.

SECTION 11: Toxicological information

Information on toxicological effects

Isophoronediamine (2855-13-2)		
LD50 oral rat	1030 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat	> 5.01 mg/l/4h mist	

1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane (26950-63-0)		
LD50 oral rat	> 2000 mg/kg (ATE)	
LD50 dermal rabbit	> 2000 mg/kg (ATE)	

Triethylenetetramine (112-24-3)		
LD50 oral rat	1716 mg/kg	
LD50 dermal rabbit	1465 mg/kg	

Dimethyl silicone polymer with silica (67762-90-7)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 dermal rabbit	> 2000 mg/kg OECD 402	

Silica, amorphous, fumed, crystalline-free (112945-52-5)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 dermal rabbit	> 2000 mg/kg OECD 402	

 Acute toxicity (oral)
 : Not classified.

 Acute toxicity (dermal)
 : Not classified.

 Acute toxicity (inhalation)
 : Not classified.

Skin corrosion/irritation : Causes severe skin burns

pH: 11.1

Serious eye damage/irritation : Causes serious eye damage.

pH: 11.1

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.

Silica, amorphous, fumed, crystalline-free (112945-52-5)		
IARC group	3 - Not classifiable	

 Reproductive toxicity
 : Not classified.

 STOT-single exposure
 : Not classified.

 STOT-repeated exposure
 : Not classified.

 Aspiration hazard
 : Not classified.

Symptoms/effects after inhalation : Causes burns to the respiratory system.

Symptoms/effects after skin contact : Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an

allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat,

and gastrointestinal tract.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

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Isophoronediamine (2855-13-2)		
EC50 Daphnia 1 14.6 - 21.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])		
Triethylenetetramine (112-24-3)		
LC50 fish 1	570 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])	
EC50 Daphnia 1	31.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	495 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	

Persistence and degradability

CPT Hardener	
Persistence and degradability	Not established.

Bioaccumulative potential

CPT Hardener		
Bioaccumulative potential	Not established.	
Isophoronediamine (2855-13-2)		
Partition coefficient n-octanol/water	0.79 (at 23 °C)	
Triethylenetetramine (112-24-3)		
BCF fish 1	(no bioaccumulation expected)	
Partition coefficient n-octanol/water	-1.4	

Mobility in soil

No additional information available

Other adverse effects

Other information : No other effects known.

Name	Product identifier	Ecotoxicity Classification Information
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	(CAS-No.) 68082-29-1	Not classified
Isophoronediamine	(CAS-No.) 2855-13-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane	(CAS No) 26950-63-0	Chronic Aquatic Cat. 3
Triethylenetetramine	(CAS-No.) 112-24-3	Chronic Aquatic Cat. 3
Dimethyl silicone polymer with silica	(CAS-No.) 67762-90-7	Not classified
Silica, amorphous, fumed, crystalline-free	(CAS-No.) 112945-52-5	Not classified

SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal : This material must be disposed of in accordance with all local, state, provincial, and federal recommendations : The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

UN-No.(DOT/TDG) : UN3259

Proper Shipping Name - Addition : Isophoronediamine

Class (DOT/TDG) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT/TDG) : III

Transport by sea

In accordance with IMDG

UN-No. (IMDG) : 3259

Proper Shipping Name (IMDG) : POLYAMINES, SOLID, CORROSIVE, N.O.S.

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Proper Shipping Name - Addition : Isophoronediamine

: 8 - Corrosive substances Class (IMDG)

: III Packing group (IMDG) EmS-No. (1) : F-A, S-B Marine pollutant : Yes

Transport by air

In accordance with IATA

: 3259 UN-No. (IATA)

Proper Shipping Name (IATA) : Polyamines, solid, corrosive, n.o.s.

: Isophoronediamine Proper Shipping Name - Addition Class (IATA) : 8 - Corrosives

: III Packing group (IATA) Marine pollutant : Yes

SECTION 15: Regulatory information

Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories

Fatty acids, C18-unsaturated, dimers	s, polymers with tall-oil fatty acids and triethylenetetramine (68082-29-1)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).	
1,2-Ethanediamine, N,N'-bis(2-amino	ethyl)-, polymer with methyloxirane (26950-63-0)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).	
Dimethyl silicone polymer with silica	a (67762-90-7)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).	

International regulations

No additional information available.

US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Isophoronediamine (2855-13-2)	
U.S New Jersey - Right to Know Hazardous Substance List	

Triethylenetetramine (112-24-3)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Date of issue : 12/28/2018 **Revision date** : 03/17/2020 Version : EH-CPT-2020a Other information

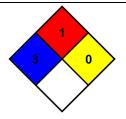
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: None.

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NFPA health hazard : 3
NFPA fire hazard : 1
NFPA reactivity : 0



Hazard Rating

Health: 3 Serious HazardFlammability: 1 Slight HazardPhysical: 0 Minimal Hazard

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