



# Safety Data Sheet

## CASTING PRO EPOXY - HARDENER

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Revision date: 2018/11/29

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### 1. Identification

**Product identifier used on the label**

#### **CASTING PRO EPOXY - HARDENER**

**Recommended use of the chemical and restriction on use: Epoxy Curing Agent**

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

DIY Epoxy  
3833 Industrial Loop,  
Coeur d' Alene, ID 83815  
1-800-962-2137

**Emergency telephone number**

CHEMTREC: 1-800-424-9300

**Other means of identification**

Chemical family: amine  
Synonyms: Polyetheramine

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

**Classification of the product**

Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	4 (dermal)	Acute toxicity
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

**Label elements**

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Pictogram:



Signal Word: **Danger**

Hazard Statement:

H318	Causes serious eye damage.
H302 + H312	Harmful if swallowed or in contact with skin
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P303 + P362	IF ON SKIN (or hair): Wash with plenty of soap and water.
P361 + P364	Take off immediately contaminated clothing and wash it before reuse.
P391	Collect spillage

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
39423-51-3	> 75%	Polyetheramine
Trade Secret	< 25%	Proprietary

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

##### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

##### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

##### If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

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

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, carbon dioxide, foam

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
No particular hazards known.

#### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

#### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### Impact Sensitivity:

Remarks: No data available.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

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Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

### **Environmental precautions**

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

### **Methods and material for containment and cleaning up**

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## **7. Handling and Storage**

### **Precautions for safe handling**

Containers should be opened carefully in well-ventilated areas to avoid static discharge.

Protection against fire and explosion:

Take precautionary measures against static discharges.

### **Conditions for safe storage, including any incompatibilities**

Segregate from acids and acid forming substances.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Keep container tightly closed.

Storage stability:

Keep container dry because product takes up the humidity of air.

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## **8. Exposure Controls/Personal Protection**

### **Components with workplace control parameters**

Contains no substances with established exposure limit values.

### **Appropriate Engineering Controls**

Provide local exhaust ventilation to control vapors/mists.

### **Personal protective equipment**

#### **Respiratory protection:**

Do not breathe dust/fume/gas/mist/vapors/spray. If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Where risk assessment shows air-purifying respirators are appropriate wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Do not exceed maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### **General safety and hygiene measures:**

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as

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necessary to prevent contact. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Hands and/or face should be washed before breaks and at the end of the shift. When using, do not eat, drink or smoke. Remove contaminated clothing. Store work clothing separately.

### 9. Physical and Chemical Properties

Form:	liquid	
Odor:	amine-like	
Color:	Clear	
pH value:	11-12	( 100 g/l)
Melting point:	< -25 °C	
Boiling point:	> 225 °C	
Flash point:	190 °C	(ASTM D93)
Flammability:	not flammable	(other)
Lower explosion limit:		For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.
Upper explosion limit:		For liquids not relevant for classification and labelling.
Autoignition:	> 300 °C	
Vapor pressure:	1.5 mbar	( 20 °C)
	10.2 mbar	( 55 °C)
Density:	0.98 g/cm <sup>3</sup>	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):	-1.13 ( 25 °C) (calculated)	
Self-ignition temperature:	Non self-igniting .	
Thermal decomposition:	140 °C, 30 kJ/kg (DSC (DIN 51007))	
	308 °C, > 340 kJ/kg (DSC (DIN 51007))	
	Thermal decomposition above the indicated temperature is possible. self-accelerating reaction	
Viscosity, kinematic:	110 mm <sup>2</sup> /s	( 20 °C)
Solubility in water:	550 g/l ( 20 °C) miscible	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

#### Corrosion to Metals:

Corrosive effect on metals

#### Oxidizing Properties:

Not fire propagating (regulation 440/2008/EC, A.21)

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### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

The product is chemically stable.

### Conditions to avoid

No conditions known that should be avoided.

### Incompatible materials

acids

### Hazardous decomposition products

Decomposition products:

No hazardous decomposition products known.

Thermal decomposition:

145 °C (DSC (DIN51007))

315 °C (DSC (DIN51007))

Thermal decomposition above the indicated temperature is possible. self-accelerating reaction

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of high toxicity after single ingestion. Virtually nontoxic after a single skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

#### Oral

Type of value: LD50

Species: rat

Value: > 550 - < 2000 mg/kg (OECD Guideline 425)

#### Inhalation

Value: LC0

Species: rat

Value: 113 mg/l (IRT)

Exposure time: 8 h

The vapor was tested

No mortality within the stated exposition time as shown in animal studies.

#### Dermal

Type of value: LD50

Species: rat

Value: > 1,000 mg/kg (OECD Guideline 402)

#### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a

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single exposure.

### Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the skin. May cause severe damage to the eyes

### Skin

Species: Rabbit  
Result: Slightly irritating  
Method: OECD Guideline 404

### Eye

Species: In vitro assay  
Result: Risk of serious damage to eyes.  
Method: HET-CAM test in vitro

### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

### Buehler test

Species: guinea pig  
Result: Non-sensitizing  
Method: similar to OECD guideline 406

### Aspiration Hazard:

No aspiration hazard expected

## **Chronic Toxicity/Effects**

### Repeated Dose Toxicity:

Assessment of repeated dose toxicity: No adverse effects were observed after repeated dermal exposure in animal studies. After repeated exposure the prominent effect is local irritation.

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

### Carcinogenicity

Assessment of carcinogenicity: No data available.

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

### Teratogenicity

Assessment of teratogenicity: In animal studies the substance did not cause malformations. The results were determined in a Screening test (OECD 421/422).

## **Symptoms of Exposure**

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11. Further symptoms are possible

### Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See SDS section 11 - Toxicological information.

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## **12. Ecological Information**

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### **Toxicity**

#### Aquatic toxicity

##### Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition

#### Toxicity to fish:

LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EEC, C.1)

The details of the toxic effect relate to the nominal concentration

#### Aquatic invertebrates

EC50 (48 h) 13.0 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) Nominal values (confirmed by concentration control analytics)

#### Aquatic plants

EC50 (72 h) 4.4 mg/l (growth rate), pseudokirchneriella subcapitata (OECD Guideline 201). The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

No observed effect concentration 1 mg/l (growth rate), pseudokirchneriella subcapitata (OECD Guideline 201). The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Chronic toxicity to fish

No data available

#### Chronic toxicity to aquatic invertebrates

No data available

#### Assessment of terrestrial toxicity

No data available

### **Microorganisms/Effect on activated sludge**

#### Toxicity to microorganisms

OECD Guideline 209 aerobic

activated sludge, domestic/EC20 (30 min): approx. 130 mg/l

The details of the toxic effect relate to the nominal concentration.

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

Not readily biodegradable (by OECD criteria). The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Elimination information

< 10 % DOC reduction (28 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Bioaccumulative potential**

#### Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.



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### Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

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## 13. Disposal considerations

### Waste disposal of substance:

Dispose of in a licensed facility. Do not discharge into waterways or sewer systems without proper authorization.

### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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## 14. Transport Information

### Land transport

USDOT

Hazard class:	6.1
Packing group:	III
ID number:	UN 2810
Hazard label:	6.1
Proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (contains POLYETHERAMINE)

### Sea transport

IMDG

Hazard class:	6.1
Packing group:	III
ID number:	UN 2810
Hazard label:	6.1
Marine pollutant:	NO
Proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (contains POLYETHERAMINE)

### Air transport

IATA/ICAO

Hazard class:	6.1
Packing group:	III
ID number:	UN 2810
Hazard label:	6.1
Proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (contains POLYETHERAMINE)

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product

#### California Prop 65 Components:

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

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**NFPA Hazard codes:**

Health : 3      Fire: 1      Reactivity: 0      Special:

**HMIS III rating**

Health: 3      Flammability: 1      Physical hazard:0

**Assessment of the hazard classes according to UN GHS criteria (most recent version):**

Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	4 (dermal)	Acute toxicity
Skin Corr./Irrit.	3	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

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### 16. Other Information

**SDS Prepared by:**

DIY EPOXY

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The information provided herein was believed by DIY Epoxy to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by DIY Epoxy are subject to DIY Epoxy's terms and conditions of sale. DIY Epoxy MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY DIY Epoxy, except that the product shall conform to DIY Epoxy specifications. Nothing contained herein constitutes an offer for the sale of any product.

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