

# Safety Data Sheet Liquid Illusion - Hardener

Revision date: 2016/12/09

#### 1. Identification

#### Product identifier used on the label

### **Liquid Illusion - Hardener**

#### Recommended use of the chemical and restriction on use

\* 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:

B.D. Classic Enterprises P.O. 2445 Santa Fe Springs, CA 90670

562-944-6177

#### **Emergency telephone number**

CHEMTREC: 1-800-424-9300

#### Other means of identification

Chemical family: amine

Synonyms: Polyetheramine

#### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Met. Corr. 1 Corrosive to metals Acute Tox. 3 (oral) Acute toxicity

Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 1 Serious eye damage/eye irritation

Aquatic Acute 3 Hazardous to the aquatic environment - acute
Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

#### Label elements

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#### Pictogram:





Signal Word: Danger

Hazard Statement:

H290 May be corrosive to metals. H318 Causes serious eye damage.

H315 Causes skin irritation. H301 Toxic if swallowed. H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye/face protection.

P273 Avoid release to the environment.

P264 Wash with plenty of water and soap thoroughly after handling.

P234 Keep only in original container.

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 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P362 + P364 Take off contaminated clothing and wash before reuse.

P390 Absorb spillage to prevent material damage.

Precautionary Statements (Storage):
P405 Store locked up.

P406 Store in corrosive resistant/... container with a resistant innerliner.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection

point.

#### 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.

#### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### **Emergency overview**

DANGER:

HARMFUL IFSWALLOWED.

Causes eye irritation.

RISK OF SERIOUS DAMAGE TO EYES.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear

NIOSH-certified chemical goggles.

Wear chemical resistant protective gloves.

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Wear protective clothing.

Avoid contact with the skin, eyes and clothing.

Eye wash fountains and safety showers must be easily accessible.

#### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Content (W/W)	Chemical name
39423-51-3	>= 90.0 - <= 100.0	Polyetheramine
	< 10.0	Proprietary

#### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Content (W/W)	<u>Chemical name</u>
39423-51-3	60.0 - 100.0 %	Polyetheramine
	3.0 - 7.0 %	Unknown component of BI 00000058540,
		Polyetheramine
	< 10%	Proprietary

#### 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 eyespecialist.

#### 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 extinguishingmedia: water spray, dry powder, carbon dioxide, foam

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

Hazards during fire-fighting: No particular hazardsknown.

#### 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.

#### 6. Accidental release measures

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

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.

#### 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**

Good general ventilation (typically 10 changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas. Ventilation should be sufficient to effectively remove, and prevent buildup of any vapors, dusts, or fumes that may be generated during handling or thermal processing.

#### 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 use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 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 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.

#### 9. Physical and Chemical Properties

Form: liquid
Odor: amine-like
Color: Clear

pH value: 11-12 (100 g/l)

Melting point:  $< -25 \,^{\circ}\text{C}$ Boiling point:  $> 225 \,^{\circ}\text{C}$ 

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. For liquids not relevant for classification

and labelling.

Autoignition: > 200 °C

Upper explosion limit:

Vapor pressure: 1.5 mbar  $(20 \,^{\circ}\text{C})$ 10.2 mbar  $(55 \,^{\circ}\text{C})$ 

Density: 0.98 g/cm3 (20 °C)

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Partitioning coefficient n-octanol/water (log Pow): -1.39 (25 °C) (calculated)

Self-ignition temperature: 20 °C No data available.

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, dynamic: No data available.

Viscosity, kinematic: 99.9 mm2/s (20 °C)

Particle size:

The substance / product is marketed or

used in a non solid or granular form.

Solubility in water: (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.

#### **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

#### 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

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#### 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: > 50 - < 200 mg/kg (OECD Guideline 423)

#### Inhalation Value: (IRT) Exposure time: 8 h

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

#### Dermal

Type of value: LD50

Species: rat

Value: > 2,000 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 single exposure.

#### Irritation / corrosion

Assessment of irritating effects: An in vitro test did not indicate the potential to cause skin corrosion. An in vitro test indicated the potential to cause serious damage to the eyes.

#### Skin

Result: Non corrosive.

Method: Epiderm CorrosivityTest

#### <u>Eye</u>

Result: Risk of serious damage to eyes.

Method: HET-CAM test in vitro

#### <u>Sensitization</u>

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

#### **Chronic Toxicity/Effects**

#### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria.

#### <u>Carcinogenicity</u>

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

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#### 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 MSDS section 11 - Toxicological information.

#### 12. Ecological Information

#### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful 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.

#### **Aquaticinvertebrates**

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

#### 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 (H2O)

Not readily biodegradable (by OECD criteria). Poorly biodegradable. 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.

#### **Additional information**

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

#### 13. Disposal considerations

#### Waste disposal of substance:

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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.

#### 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)

15. Regulatory Information

#### **Federal Regulations**

Registration status:

Chemical TSCA, US released /listed

EPCRA 311/312 (Hazard categories): Acute;

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):

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Aquatic Acute 3 Hazardous to the aquatic environment - acute Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

Acute Tox. 3 (oral) Acute toxicity
Acute Tox. 5 (dermal) Acute toxicity

Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 1 Serious eye damage/eye irritation

#### 16. Other Information

#### SDS Prepared by:

B.D. Classic Enterprises

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of B. D. Classic Enterprises, Inc. Product Safety Program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information obtained herein. Data sheets are available for all B. D. Classic products. You are urged to obtain data sheets for all B. D. Classic products you buy, process, use or distribute and you are encouraged and requested to advise those who may come in contact with such products of the information contained therein.

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