Product number: 193019 / 121019



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SHATTERED 99 Product number 193019 / 121019 **Revision date** 23-Mar-2006

Company information Brulin & Company, Inc.

P.O. Box 270

Indianapolis, IN 46206 US

www.Brulin.com

CHEMTREC 1-800-424-9300 **Emergency**

General information Phone: 317-923-3211

Fax: 317-925-4596

2. Hazards Identification

Emergency overview Harmful by inhalation, in contact with skin and if swallowed. Causes severe skin and eye

burns. Prolonged exposure may cause chronic effects.

Potential short term health effects

Routes of exposure Inhalation. Skin contact. Ingestion.

This product causes eye burns. Risk of serious damage to eyes. Avoid contact with eyes. **Eyes** Harmful in contact with skin. Causes severe skin burns. Avoid contact with the skin. Skin

Harmful if inhaled. Do not breathe vapor. Inhalation

Ingestion Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway,

esophagus and possibly the digestive tract.

Target organs Blood. Central nervous system. Eyes. Kidney. Liver. Respiratory system. Skin. Potential environmental effects

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic

environment.

3. Composition / Information on Ingredients

Hazardous component(s)	CAS#	Percent
Benzyl alcohol	100-51-6	< 60
2-Butoxyethanol	111-76-2	< 40
Ethanolamine	141-43-5	< 40

4. First Aid Measures

First aid procedures

Eve contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention

immediately.

Skin contact Immediately flush skin with running water for at least 20 minutes. Wash off with soap and

water. Get medical attention immediately. Launder contaminated clothing before reuse.

Discard any shoes or clothing items that cannot be decontaminated.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention

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Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not

induce vomiting without medical advice. Have victim rinse mouth thoroughly with water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give

anything by mouth to a victim who is unconscious or is having convulsions.

Keep victim warm. Take off contaminated clothing and shoes immediately. In case of General advice

shortness of breath, give oxygen. In the case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible).

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5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2). Foam. Dry chemical.

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation. Use personal protective equipment. Do not touch or walk

through spilled material. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing.

Do not contaminate water. **Environmental precautions**

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth,

commercial sorbents, or recover using pumps.

Methods for cleaning up Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to

containers for later disposal. Dike far ahead of liquid spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Prevent product from entering drains. Do not allow material to contaminate ground water system. Soak up with inert absorbent material and dispose of as hazardous waste. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling When using do not eat or drink. Avoid contact with skin and eyes.

Keep this material away from food, drink and animal feed. Keep at temperatures between **Storage**

4 and 49??C.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Ethanolamine 141-43-5 6 Ppm STEL ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

20 Ppm TWA 2-Butoxvethanol 111-76-2 Ethanolamine 141-43-5 3 Ppm TWA ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

2-Butoxyethanol 111-76-2 Irritation: CNS Ethanolamine 141-43-5 irritation

OSHA - Final PELs - Skin Notations

2-Butoxvethanol 111-76-2 prevent or reduce skin absorption

OSHA - Final PELs - Time Weighted Averages (TWAs)

50 Ppm TWA; 240 mg/m3 TWA 2-Butoxyethanol 111-76-2 Ethanolamine 141-43-5 3 Ppm TWA; 6 mg/m3 TWA

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control

airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear chemical goggles.

Avoid contact with the skin. Wear suitable protective clothing. Wear chemical protective Skin protection

equipment that is specifically recommended by the manufacturer. Protective gloves.

Respiratory protection None required where adequate ventilation conditions exist. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

General hygeine considerations When using do not eat or drink. Avoid contact with skin. Avoid contact with eyes.

9. Physical & Chemical Properties

Appearance Not available Not available Clarity

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Color clear, dark red

Form Liquid.
Odor amine
Odor threshold Not available
Physical state Liquid
pH 11.7
Melting point 30 °F

Freezing point Not available
Boiling point Not available

Flash point 175 °F Pensky-Martens Closed Cup

Not available

Evaporation rate Not available Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Vapor pressure Not available
Vapor density Not available

Specific gravity 0.998

Relative density

Solubility (H2O)

Octanol/H2O coeff

Auto impition temperature

Not available

Not available

Auto-ignition temperatureNot availableDecomposition temperatureNot availableVOC (Weight %)69.53 %

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Incompatible materialsIsocyanates. Strong oxidizing agents. copperHazardous decomposition productsCarbon oxides. Nitrogen oxides (NOx).

Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Acute effects Acute LD50: 950 mg/kg, Rat, Oral

Acute LD50: 735 mg/kg, Rat, Dermal Acute LC50: 1820 mg/l/4h, Rat, Inhalation

Causes severe burns.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Environmental effects Harmful to aquatic life. An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Aquatic toxicity May cause long-term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal instructionsDispose in accordance with all applicable regulations. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. This material and its container must be disposed of as hazardous waste. Do not dispose of waste into sewer. Must be incinerated in a suitable incineration

plant holding a permit delivered by the competent authorities.

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14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Ethanolamine

Hazard class 8

UN number UN2491 Packaging group III

Additional information:

Special provisions IB3, T4, TP1

Packaging exceptions154Packaging non bulk203Packaging bulk241ERG number153

Department of Transportation (DOT) Requirements NON-BULK

Basic shipping requirements:

Proper shipping name CONSUMER COMMODITY - ORMD

Hazard class 9



DOT NON-BULK



IATA

Basic shipping requirements:

Proper shipping name Ethanolamine Solution (MEA)

Hazard class 8
UN number UN2491
Packaging group III

Additional information:

Packaging exceptions 150



IMDG

Basic shipping requirements:

Proper shipping name ETHANOLAMINE OR ETHANOLAMINE SOLUTION

Hazard class 8
Subsidiary hazard class 8

UN number UN2491

Packaging group
Additional information:

Packaging exceptions 154



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15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

International regulations The product is classified and labelled in accordance with EC directives or respective

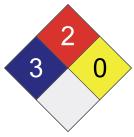
national laws.

16. Other Information

HMIS rating



NFPA codes



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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

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