

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Section 1 CHEMICAL PRODUCT SECTION

**Identification:** Product Name: STATICIDE® ESD Safety Shield  
Product Number: #6500

**Recommend use:**

**Product description:** Electrostatic dissipative coating on non-porous surfaces.

**Product type:** Liquid acrylic coating

**Application:** Industrial applications, professional applications, not for exterior applications

**Manufacturer:**

ACL Incorporated  
840 W. 49<sup>th</sup> Place  
Chicago, IL 60609  
PH: (01) 847.981.9212 [U.S.A.]  
FAX: (01) 847.981.9278 [U.S.A.]

Email of responsible party for SDS: [marykay@aclstaticide.com](mailto:marykay@aclstaticide.com)

US/Canada Emergency TEL: INFOTRAC: (01) 800.535.5053 (day or night)

International Emergency TEL: INFOTRAC: 352.323.3500 (day or night)

### Section 2 HAZARD IDENTIFICATION

*GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)*

#### 2.1 Classification of the substance or mixture

**Product definition:** GASES UNDER PRESSURE - Liquefied gas

#### **GHS-US classification**

Physical: Aerosols -Cat 3

Health: Acute toxicity Oral – Cat 4

Acute toxicity - Inhalation (Dusts/Mists) – Cat 4

Skin corrosion/irritation – Cat 2

Serious eye damage/eye irritation- Cat 2

Reproductive toxicity – Cat 1B

#### **Label Elements**

##### **Hazard Pictograms:**



**Signal Word:** Danger

#### **Hazard Statement:**

H284: Contains gas under pressure; may explode if heated.

H315: Causes skin irritation

H319: Causes serious eye irritation

H302: Harmful if swallowed

H332: Harmful if inhaled

H360: May damage fertility or the unborn child

**Precautionary Statements Prevention:**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required

P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P103: Read label before use  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251: Do not pierce or burn, even after use.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P264: Wash hands, face, and any exposed skin thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P271: Use only outdoors or in a well-ventilated area  
P280: Wear protective gloves.

**Precautionary Statements Response:**

P308: If exposed or concerned: Get medical advice/attention  
P302+P352: IF ON SKIN: Wash with plenty of water and soap.  
P362+P264: Take of contaminated clothing and wash before use.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313: If skin irritation occurs: Get medical advice/attention  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P301+P317+P330: IF SWALLOWED: Get medical help. if you feel unwell. Rinse mouth

**Precautionary Statements – Storage:**

P405+ P410 +:P403: Store locked up Protect from sunlight. Store in a well-ventilated place.  
P412: Do not expose to temperatures exceeding 50°C / 122°F

**Precautionary Statements – Disposal:** P251: Do not pierce or burn, even after use

P501: Dispose of contents/container to an approved waste disposal plant

**Other hazards not otherwise classified:** May cause frostbite. May displace oxygen and cause rapid suffocation.

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| <b>Section 3</b> | <b>INFORMATION ON INGREDIENTS</b> |
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| CHEMICAL                      | C.A.S.   | Weight % | Classification  |
|-------------------------------|----------|----------|---|
| 2-Butoxyethanol               | 111-76-2 | 30-35    | Acute Tox. 4<br>Eye Irrit. 2<br>Skin Irrit. 2                                 |
| Propane                       | 74-98-6  | 5 - 10   | Flammable gas 1   |
| n-Butane                      | 106-97-8 | 1 - 5    | Flam. Gas 1, H220<br>Press. Gas (Liq.), H280                                  |
| Diethylene Glycol Butyl Ether | 112-34-5 | 1 – 5    | Eye irritation 2  |
| Diethylene Glycol             | 111-46-6 | 1 – 5    | Acute toxicity, oral 4<br>Specific target organ toxicity, repeated exposure 2 |
| N-methyl-2-pyrrolidone        | 872-50-4 | 0.1-1    | Flam (liq) CAT 4, H227  |

|  |          |         |  |
|--|----------|---------|--|
|  |          |         | Skin Irrit CAT 2, H315<br>Eye Irrit CAT 2A, H319<br>Repro Tox Cat 1B, H360<br>Specific target organ toxicity, single exposure CAT 3, Resp H335   |
| Triethylamine                            | 121-44-8 | <0.1    | Flam (liq) CAT 2, H225<br>Acute toxicity, oral 4, H302<br>Acute toxicity, Inhalation 3, H331<br>Acute toxicity, Dermal 3, H311<br>Skin Corrosion Cat 1A, H314<br>Serious eye damage Cat 1, H318<br>STOT single Cat 3, respiratory H335<br>Short term (acute) aquatic Cat 2, H401 |
| Water and other non-hazardous substances | Mixture  | Balance | Not classified   |

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| <b>Section 4</b> | <b>FIRST AID MEASURES</b> |
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**4.1 Description of first aid measures**

**General:** If exposed or concerned: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

**Ingestion:** Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

**4.2 Most important symptoms and effects, both acute and delayed**

*Potential acute health effects*

May damage fertility or the unborn child.

**Eye contact:** Liquid can cause burns similar to frostbite. Causes serious eye irritation.

**Inhalation :** Harmful if inhaled.

**Skin contact :** May be harmful in contact with skin. Causes skin irritation. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite. For frostbite, try to warm up the frozen tissues and seek medical attention.

**Ingestion :** Ingestion of liquid can cause burns similar to frostbite. Harmful if swallowed. May damage fertility or the unborn child.

*Over-exposure signs/symptoms*

**Eye contact:** Adverse symptoms may include the following: frostbite

**Inhalation :** No specific data.

**Skin contact:** Adverse symptoms may include the following: frostbite

**Ingestion :** Adverse symptoms may include the following: frostbite

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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| <b>Section 5</b> | <b>FIRE FIGHTING MEASURES</b> |
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**5.1 Extinguishing media**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media:** Do not direct a solid stream of water or foam into hot, burning pools this may result in frothing and increase fire intensity.

**5.2 Special hazards arising from the substance or mixture**

**Hazards from the substance or mixture:** Contains gas under pressure; may explode if heated.

**Hazardous thermal decomposition products:** Not determined

**5.3 Advice for firefighters**

**Special protective actions for fire-fighters:** Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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| <b>Section 6</b> | <b>ACCIDENTAL RELEASE MEASURES</b> |
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**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** See Section 12 for additional Ecological Information.

**6.3 Methods and materials for containment and cleaning up**

**Small spill:** Immediately contact emergency personnel. Stop leak if without risk

**Large spill:** Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**6.4 Reference to other sections**

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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| <b>Section 7</b> | <b>HANDLING AND STORAGE</b> |
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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling**

**Protective measures:** Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close

valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

**Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store locked up. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

**7.3 Specific end use(s)**

**Recommendations:** Dissipative coating is to be used on plastic substrates before cutting or drilling.

**Industrial sector specific solutions:** Industrial manufacturing

**Section 8 EXPOSURE CONTROL / PERSONAL PROTECTION**

| Chemical name                                 | ACGIH TLV  | OSHA PEL  | NIOSH IDLH  |
|---|--|---|---|
| 2-Butoxyethanol<br>111-76-2                   | TWA: 20 ppm  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S*  | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup>  |
| Diethylene Glycol Monobutyl Ether<br>112-34-5 | TWA: 10 ppm inhalable fraction and vapor                           | -   | -   |
| Triethylamine<br>121-44-8                     | STEL: 1 ppm<br>TWA: 0.5 ppm<br>S*                                  | TWA: 25 ppm<br>TWA: 100 mg/m <sup>3</sup><br>(vacated) TWA: 10 ppm<br>(vacated) TWA: 40 mg/m <sup>3</sup><br>(vacated) STEL: 15 ppm<br>(vacated) STEL: 60 mg/m <sup>3</sup> | IDLH: 200 ppm   |
| Propane                                       | TWA 1000 ppm (8 hours)   | TWA 1000 ppm (8 hours)<br>1800 mg/m <sup>3</sup> (8 hours)  | TWA 1000ppm (10 hrs)<br>1800 mg/m <sup>3</sup> (10 hours) |
| n-Butane                                      | 1000 ppm TWA<br>1000 ppm STEL<br>Central Nervous System impairment | NE  | 800 ppm<br>1900 mg/m <sup>3</sup>                         |

**Biological occupational exposure limits**

| Component   | Parameters              | Value         | Biological specimen | Basis                                     |
|---|-------------------------|---------------|---------------------|---|
| 2-Butoxyethanol   | Butoxyacetic acid (BAA) | 200.0000 mg/g | Urine               | ACGIH - Biological Exposure Indices (BEI) |
| Remarks: End of shift (As soon as possible after exposure ceases) |                         |               |                     |   |

**Recommended monitoring procedures:** Not established

**DNELs/DMELs:** No DNELs/DMELs available.

**PNECs:** No PNECs available

**8.2 Exposure controls**

**Appropriate engineering controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. See section 2 for component exposure guidelines. Local Exhaust ventilation acceptable

**Individual protection measures**

**Hygiene measures:** Wash hands before eating, smoking and using the lavatory and at the end of the working period. When using, do not eat or drink. When using, do not smoke.

**Eye/face protection:** Ensure that eyewash stations are proximal to the work-station location. Splash Goggles are recommended.

**Skin protection:** Avoid prolonged or repeated skin contact. Impervious gloves such as nitrile, neoprene or rubber are recommended.

**Hand protection:** Gloves Recommended.

**Body protection:** Wear lab coat.

**Other skin protection:** Ensure the safety showers are proximal to the work-station location.

**Respiratory protection:** If needed, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures (greater than 10 times the exposure limit), a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134 and ANSI Z88.2 in the US, local regulations and good Industrial Hygiene practice.

**Environmental exposure controls:** For normal conditions, protection is not necessary.

**In Case of Large Spill:** Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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| <b>Section 9</b> | <b>PHYSICAL AND CHEMICAL PROPERTIES</b> |
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**9.1 Information on basic physical and chemical properties**

|  |                             |
|--|-----------------------------|
| Appearance                                   | Aerosol                     |
| Odor   | Mild                        |
| pH   | 7.0                         |
| Melting point/freezing point                 | Do not freeze               |
| Initial boiling point and boiling range      | >100°C                      |
| Flash point and method                       | 156°F (propellant)          |
| Evaporation rate (H2O=1)                     | 1                           |
| Flammability (solid, gas, liquid)            | Pressurized container       |
| Upper/lower flammability or explosive limits | 1.8 – 9.5% v/v (propellant) |
| Vapor pressure                               | No data available           |
| Vapor density (air=1)                        | >7.75                       |
| Water solubility.                            | Soluble                     |
| Partition coefficient: n-octanol/water       | No data available           |
| Autoignition temperature                     | No data available           |
| Decomposition temperature                    | No data available           |
| Kinematic Viscosity                          | No data available           |
| Dynamic viscosity                            | No data available           |
| Explosive properties                         | No data available           |

**9.2 Other safety information**

|                     |                                     |
|---------------------|-------------------------------------|
| VOC with propellant | 380 - 4800 grams per liter          |
| VOC w/o propellant  | 347 gram per liter or 35% by weight |

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| <b>Section 10</b> | <b>STABILITY AND REACTIVITY</b> |
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**10.1 Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability:** The product is stable.

**10.3 Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid:** Keep away from heat, direct sunlight, open flames, sparks, or sources of ignition. Combustion may produce carbon monoxide, carbon dioxide, Oxides of nitrogen, unknown materials.

**10.5 Incompatible Materials:** Strong oxidizing agents, reducing agents, acids, alkalis.

**10.6 Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

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| <b>Section 11</b> | <b>TOXICOLOGY INFORMATION</b> |
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**Acute toxicity**

| Chemical name                                    | Oral LD50             | Dermal LD50              | Inhalation LC50                                |
|--|-----------------------|--------------------------|--|
| 2-Butoxyethanol<br>111-76-2                      | = 470 mg/kg ( Rat )   | = 435 mg/kg ( Rabbit )   | = 450 ppm ( Rat ) 4 h<br>= 486 ppm ( Rat ) 4 h |
| Proprietary                                      | > 10 g/kg ( Rat )     | = 3300 mg/kg ( Rabbit )  |  |
| Diethylene Glycol Monobutyl<br>Ether<br>112-34-5 | = 5660 mg/kg ( Rat )  | = 2700 mg/kg ( Rabbit )  | -  |
| Diethylene glycol<br>111-46-6                    | = 12565 mg/kg ( Rat ) | = 11890 mg/kg ( Rabbit ) | > 4600 mg/m <sup>3</sup> ( Rat ) 4 h           |
| N-methyl-2-pyrrolidone<br>872-50-4               | = 3914 mg/kg ( Rat )  | = 8 g/kg ( Rabbit )      | > 5.1 mg/L ( Rat ) 4 h                         |
| Triethylamine<br>121-44-8                        | = 460 mg/kg ( Rat )   | = 415 mg/kg ( Rabbit )   | = 14.5 mg/L ( Rat ) 1 h                        |

**Irritation/Corrosion:** Not available.

**Sensitization:** Not available.

**Mutagenicity:** Not available.

**Carcinogenicity:**

2-Butoxyethanol (111-76-2) ACGIH-A3 / IARC Group 3

Group 3 IARC components are "not classifiable as human carcinogens".

**Reproductive toxicity:** May damage fertility or the unborn child.

**Teratogenicity:** Not available

**Specific target organ toxicity (single exposure):** Not available

**Specific target organ toxicity (repeated exposure):** Not available.

**Aspiration hazard:** Not available

**Information on the likely routes of exposure:** Not available.

**Potential acute health effects**

**Eye contact:** Causes serious eye irritation

**Inhalation :** Harmful if inhaled.

**Skin contact :** Causes skin irritation

**Ingestion :** Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact:** Causes serious eye irritation

**Inhalation :** No specific data.

**Skin contact :** Causes skin irritation

**Ingestion :** No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

**Long term exposure**

**Potential immediate effects:** Not available.

**Potential delayed effects:** Not available.

**Potential chronic health effects:**

**Carcinogenicity:** 2-Butoxyethanol (111-76-2) ACGIH-A3 / IARC Group 3  
Group 3 IARC components are "not classifiable as human carcinogens".

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

**Fertility effects:** May damage fertility or the unborn child.

**Other information:** Numerical measures of toxicity /The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                  |
|--------------------------------------|------------------|
| <b>Oral LD50</b>                     | 1,447.0024 mg/kg |
| <b>Dermal LD50</b>                   | 3,264.00 mg/kg   |
| <b>Gas</b>                           | 80,793.70 mg/L   |
| <b>ATEmix (inhalation-dust/mist)</b> | 4.79 mg/L        |
| <b>ATEmix (inhalation-vapor)</b>     | >10.0 mg/L       |

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| <b>Section 12</b> | <b>ECOLOGICAL INFORMATION</b> |
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**12.1 Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Chemical name                                    | Algae/aquatic plants                          | Fish  | Crustacea                              |
|--|---|---|--|
| 2-Butoxyethanol<br>111-76-2                      |   | 1490: 96 h Lepomis macrochirus<br>mg/L LC50 static<br>2950: 96 h Lepomis macrochirus<br>mg/L LC50   | 1000: 48 h Daphnia magna<br>mg/L EC50  |
| Diethylene Glycol Monobutyl<br>Ether<br>112-34-5 | 100: 96 h Desmodemus<br>subspicatus mg/L EC50 | 1300: 96 h Lepomis macrochirus<br>mg/L LC50 static  | 100: 48 h Daphnia magna<br>mg/L EC50   |
| Diethylene glycol<br>111-46-6                    |   | 75200: 96 h Pimephales promelas<br>mg/L LC50 flow-through   | 84000: 48 h Daphnia magna<br>mg/L EC50 |
| N-methyl-2-pyrrolidone<br>872-50-4               | 500: 72 h Desmodemus<br>subspicatus mg/L EC50 | 1072: 96 h Pimephales promelas<br>mg/L LC50 static<br>1400: 96 h Poecilia reticulata<br>mg/L LC50 static<br>832: 96 h Lepomis macrochirus<br>mg/L LC50 static | 4897: 48 h Daphnia magna<br>mg/L EC50  |
| Triethylamine<br>121-44-8                        |   | 43.7: 96 h Pimephales promelas<br>mg/L LC50 static  | 200: 48 h Daphnia magna<br>mg/L EC50   |

**12.2 Persistence and degradability :** Not determined.

**12.3 Bioaccumulative potential:** There is no data for this product.

**12.4 Mobility:**

| Chemical name                      | Partition coefficient |
|------------------------------------|-----------------------|
| 2-Butoxyethanol<br>111-76-2        | 0.81                  |
| Diethylene glycol<br>111-46-6      | -1.98                 |
| N-methyl-2-pyrrolidone<br>872-50-4 | -0.46                 |
| Triethylamine<br>121-44-8          | 1.45                  |

**12.5 Results of PBT and vPvB assessment**



**PBT:** Not available.

**vPvB:** Not available.

**12.6 Other adverse effects:** No known significant effects or critical hazards.

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| <b>Section 13</b> | <b>DISPOSAL CONSIDERATIONS</b> |
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**Do not puncture, incinerate or compact aerosol can.** When contents are depleted continue to depress button until all gas is expelled. Federal, State, and Local laws governing disposal of material can differ. Ensure proper disposal compliance with proper authorities before disposal.

This product may contain < 0.1 % of Triethylamine which is a RCRA U-series waste (U404). Included in waste streams: K156, K157

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| <b>Section 14</b> | <b>TRANSPORTATION INFORMATION</b> |
|-------------------|-----------------------------------|

|                      | Proper Shipping Name                                      | Hazard Class | UN number | NOTE  |
|----------------------|---|--------------|-----------|---|
| <b>US DOT ground</b> | NA  | LTD. QTY.    | NA        | Limited Quantity Mark required.                                   |
| <b>US DOT air</b>    | AEROSOLS, non-flammable, (each not exceeding 1L capacity) | 2.2          | UN1950    | Non-Flammable Gas<br>Limited Quantity: Y203                       |
| <b>IATA</b>          | AEROSOLS, non-flammable, (each not exceeding 1L capacity) | 2.2          | UN1950    | IATA Labels required: Non-Flammable Gas<br>Limited Quantity: Y203 |
| <b>IMDG</b>          | AEROSOLS, non-flammable, (each not exceeding 1L capacity) | 2.2          | UN1950    | Limited Quantity Mark required.                                   |

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| <b>Section 15</b> | <b>REGULATORY INFORMATION</b> |
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United States Federal Regulations:  
SDS complies with the OSHA Hazard Communication Rule, 29 CFR 1910.1200.  
CERCLA/Superfund, 40 CFR 117. 302: Triethylamine (121-44-8) RQs 5000lb final RQ (2270kg)

**Section 302** – Extremely hazardous substances (40 CFR 355): **None of the chemicals are Section 302 hazards**

**Section 311/312** – Material Safety Data Sheet Requirements (40 CFR 370):

Hazard Categories: Immediate (acute) health, Delayed (chronic) health, Fire, Pressure

**Section 313** – List of Toxic Chemicals (40CFR 372):

| Chemical name                                | CAS No   | Weight-% | SARA 313 - Threshold Values % |
|--|----------|----------|-------------------------------|
| 2-Butoxyethanol - 111-76-2                   | 111-76-2 | 30-35    | 1.0                           |
| Diethylene Glycol Monobutyl Ether - 112-34-5 | 112-34-5 | 1-5      | 1.0                           |
| N-methyl-2-pyrrolidone - 872-50-4            | 872-50-4 | 0.1-1    | 1.0                           |
| Triethylamine - 121-44-8                     | 121-44-8 | <0.1     | 1.0                           |

**Toxic Substance Control Act (TSCA):** All substances are TSCA listed.

Resource Conservation and Recovery Act (RCRA 40 CFR 261) Subpart C & D:

Refer to Section 13

CWA (Clean Water Act): Triethylamine (121-44-8) RQ 5000lb

**US State Right-to-Know:**

| Chemical name                     | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------------|------------|---------------|--------------|
| 2-Butoxyethanol<br>111-76-2       | X          | X             | X            |
| Diethylene Glycol Monobutyl Ether | X          |               | X            |

|                                    |   |   |   |
|------------------------------------|---|---|---|
| 112-34-5                           |   |   |   |
| Diethylene glycol<br>111-46-6      |   |   | X |
| N-methyl-2-pyrrolidone<br>872-50-4 | X | X | X |
| Triethylamine<br>121-44-8          | X | X | X |

**California Proposition 65:**



WARNING: This product can expose you to chemicals including N-methyl-2-pyrrolidone (CAS 872-50-4), which is known to the state of California to cause birth defects or other reproductive harm.

**International Inventories:**

| Chemical name                     | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/E Lincs | ENCS | IECSC | KECL | PICCS | AICS |
|-----------------------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| 2-Butoxyethanol                   | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Proprietary                       | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Diethylene Glycol Monobutyl Ether | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Diethylene glycol                 | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Dynol                             |      |                       | X        |                | X    | X     |      |       | X    |
| N-methyl-2-pyrrolidone            | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Triethylamine                     | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |

**Canada WHMIS:** This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. All of the components of this product are listed on the Canadian Domestic substances List (DSL).

REACH-Candidate List of Substances of Very High Concern for Authorisation (Article 59):

May contain N-methyl-2-pyrrolidone (CAS 872-50-4) which is Toxic for reproduction (article 57c) ED/31/2011  
This product contains less than 3% CAS 112-34-5, therefore it is not subject to REACH restrictions under Annex XVII.

**Sections 16 OTHER INFORMATION**

NFPA Health: Can cause temporary incapacitation or residual injury  
NFPA Flammability: Must be heated or high ambient temperature to burn  
NFPA Reactivity: Stable  
NFPA Special: None



HMIS Health: Temporary or minor injury may occur.  
HMIS Flammability: Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur.  
HMIS Physical: Stable under normal conditions.

|   |                      |
|---|----------------------|
| 2 | HEALTH               |
| 2 | FLAMMABILITY         |
| 0 | PHYSICAL HAZARD      |
| B | PROTECTIVE EQUIPMENT |

HMIS Protective Equipment: Wear eye protection and gloves

REVISION DATES, SECTIONS, REVISED BY:

|             |   |
|-------------|---|
| 27-Oct-08   | Original release date, MKB              |
| 04-DEC-08   | revision, mkb                           |
| 14-Sept-09  | EU format, new address, section 15, mkb |
| 29-June-11  | Section 9, VOC, mkb                     |
| 10-May-13   | Section 14, mkb                         |
| 15-June-15  | Updated to GHS, mkb                     |
| 15-Nov-16   | Section 9, corrected VOC, mkb           |
| 20-Jul-17   | Section 16, Updated HMIS code, mkb      |
| 18-Apr-18   | Section 15, Prop 65, mkb                |
| 01-Aug-19   | Section 3, 15, adjusted DGBE %, mkb     |
| 01-Jan-21   | Section 3, mkb                          |
| 05-May-22   | Revised all sections, mkb               |
| 04-April-23 | Section 3, 15 mkb                       |

ABBREVIATIONS USED IN THIS DOCUMENT:

NE – Not Established  
NA – Not Applicable  
NIF – No Information Found

ABRIDGED LIST OF REFERENCES:

Code of Federal Regulations (CFR)  
The Sigma-Aldrich Library of Regulatory and Safety Data  
Chemical Guide and OSHA Hazardous Communication Standard  
The Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))  
American National Standards Institute

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