

**MSDS Information****Section 1 CHEMICAL PRODUCT SECTION**

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

**Recommend use:** Electrostatic dissipative coating for interior use on hard surfaces

**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.]

**Emergency telephone:** INFOTRAC: (01) 800.535.5053 (day or night)

**Section 2 HAZARD IDENTIFICATION**

NFPA RATING: (2) Health (2) Flammability (0) Reactivity  
HMIS RATING: (2) Health (2) Flammability (0) Reactivity

Emergency Overview: Caution: Contents under pressure.  
US OSHA Hazard Classification: Irritant, Target organ effects  
Potential Health Effects: Prolonged overexposure may damage the nervous system, blood and blood forming organs, kidneys and liver.

**Inhalation:** May cause respiratory irritation. Inhalation of vapors or mists may cause headache, dizziness, nausea and other symptoms of central nervous system depression.

**Eyes:** This material may cause eye irritation.

**Skin:** May be absorbed through the skin. May cause skin irritation.

**Section 3 INFORMATION ON INGREDIENTS**

| CHEMICAL                                 | C.A.S.   | EC#       | Weight % | EU Class             |
|--|----------|-----------|----------|----------------------|
| 2-Butoxyethanol<br>R36/38                | 111-76-2 | 203-905-0 | 10 – 15  | Xn, Xi, R20/21/22,   |
| Propane                                  | 74-98-6  | 200-827-9 | 5 - 10   | F <sup>+</sup> , R12 |
| n-Butane                                 | 106-97-8 | 203-448-7 | 1 - 5    | F <sup>+</sup> , R12 |
| Diethylene Glycol Butyl Ether            | 112-34-5 | 203-961-6 | 1 – 5    | Xi, R36              |
| Diethylene Glycol                        | 111-46-6 | 203-872-2 | 1 – 5    | Xn, R22              |
| Water and other non-hazardous substances | Mixture  |           | Balance  | Not Classified       |

**Section 4 FIRST AID MEASURES**

**Inhalation:** Remove affected person from source of exposure. If breathing is difficult or symptoms of irritation persist, get medical attention.

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Hold eyelids open during the water flushing. GET MEDICAL ATTENTION.

**Skin Contact:** Quickly remove contaminated clothing and wash immediately with plenty of soap and water. Get medical attention if irritation or symptoms develop. Launder contaminated clothing before reuse.

**Ingestion:** If the patient is conscious, rinse mouth with water. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

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| <b>Section 5</b> | <b>FIRE FIGHTING MEASURES</b> |
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Flash Point &amp; Method: 156°F (propellant)

Explosive limits: 1.8 – 9.5% v/v (propellant)

**Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus.**Unusual fire and explosion hazards:** Contents under pressure. Containers may explode if exposed to extreme heat. Water may be used to cool containers during a fire.**Hazardous Decomposition Products:** Oxides of carbon, nitrogen, sulfur and unknown materials.

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| <b>Section 6</b> | <b>ACCIDENTAL RELEASE MEASURES</b> |
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**Spill:** Remove all sources of ignition. Ventilate the area. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Cover with an inert absorbent material and collect into an appropriate container for disposal. Report spills and releases as required to appropriate authorities.

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| <b>Section 7</b> | <b>HANDLING AND STORAGE</b> |
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**Handling:** Keep away from heat or flame. Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wear appropriate protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep containers closed when not in use.**Storage:** Keep container tightly closed. Store in cool, dry, area away from excessive heat and incompatible.**Empty Containers:** Empty containers may contain product residue and may be dangerous. Follow all MSDS precautions in handling empty containers.

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| <b>Section 8</b> | <b>EXPOSURE CONTROL / PERSONAL PROTECTION</b> |
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| EXPOSURE LIMITS               |                   |                   |                               |                             |
|-------------------------------|-------------------|-------------------|-------------------------------|-----------------------------|
| Chemical Name                 | OSHA PEL          | ACGIH TLV         | DFG                           | UK WEL                      |
| 2-Butoxyethanol               | 50 ppm (skin) TWA | 20 ppm (skin) TWA | 10 ppm TWA (skin) MAK         | 25 ppm TWA<br>50 ppm STEL   |
| Propane                       | 1000 ppm TWA      | 1000 ppm TWA*     | 1000 ppm MAK<br>1800 ppm PEAK | NE                          |
| n-Butane                      | NE                | 1000 ppm TWA*     | 1000 ppm MAK<br>4000 ppm PEAK | 600 ppm TWA<br>750 ppm STEL |
| Diethylene Glycol Butyl Ether | NE                | NE                | 100 Mg/m <sup>3</sup> MAK     | NE                          |
| Diethylene Glycol             | NE                | NE                | 10 ppm MAK                    | NE                          |

\*listed under Aliphatic Hydrocarbon Gases ; Alkane C1-C4

**Engineering Controls:** Use with adequate general or local exhaust ventilation to minimize exposure levels. General ventilation is expected to be adequate unless product is heated or aerosols are formed in use.**Eye Protection:** Chemical safety goggles recommended.**Skin Protection:** Avoid prolonged or repeated skin contact. Impervious gloves such as nitrile, neoprene or rubber are recommended.**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.

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| <b>Section 9</b> | <b>PHYSICAL AND CHEMICAL PROPERTIES</b> |
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Boiling Point: &gt; 100°C

pH: 7.0

Appearance: Aerosol spray can containing liquid with a mild odor.

Evaporation Rate (H<sub>2</sub>O=1): 1

Solubility in Water: Soluble

Vapor Density (Air=1): &gt; 7.75

**Section 10 STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions of use and storage.

**Incompatibility (materials to avoid):** Strong acids, strong bases, oxidizing agents, amines.

**Conditions to Avoid:** Heat, flames, hot surfaces and all other sources of ignition.

**Hazardous Decomposition Products:** Combustion may produce carbon monoxide, carbon dioxide, Oxides of nitrogen, unknown materials.

**Section 11 TOXICOLOGY INFORMATION**

**Skin:** Contact with the liquid may cause irritation of the skin. May be absorbed through the skin to cause effects similar to inhalation and ingestion.

**Eye:** Contact may cause moderate irritation of the eyes.

**Inhalation:** Propellant may exhibit anesthetic properties at very high concentrations. Inhalation of vapors may cause mucous membrane and respiratory irritation with coughing or difficult breathing. High concentrations may cause nausea, vomiting, headache, dizziness, and other symptoms of central nervous system depression.

**Ingestion:** May cause irritation of the mouth and gastrointestinal tract with nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause lung damage. Ingestion of 2-butoxyethanol may cause damage to the blood, liver and kidneys. Ingestion of diethylene glycol may cause liver and kidney damage.

**Chronic Health Effects:** Chronic overexposure to the solvent in this product may damage the blood and blood forming organs, kidneys and liver. None of the components of this product are listed as a carcinogen by IARC, NTP, or OSHA.

**Acute Toxicity Values**

2-Butoxyethanol: Rat oral LD<sub>50</sub> = 470-3000 mg/kg; Rabbit dermal LD<sub>50</sub> = 220-612 mg/kg; Rat inhalation LC<sub>50</sub> = 450ppm/4 hr

Propane: Inhalation LC<sub>50</sub> (rat) = 658 mg/L/4hr

Butane: Inhalation LC<sub>50</sub> (rat) = 658 mg/L/4hr

Diethylene glycol: Rat oral LD<sub>50</sub> = 12565 mg/kg; Rabbit dermal LD<sub>50</sub> = 11900mg/kg

Diethylene glycol butyl ether: Rat oral LD<sub>50</sub> = 5660 mg/kg; Rabbit dermal LD<sub>50</sub> = 2700 mg/kg

**Section 12 ECOLOGICAL INFORMATION**

The ecological effects of this product have not been determined. The solvents in this product are not classified as toxic to aquatic organisms.

**Section 13 DISPOSAL CONSIDERATIONS**

As packaged, if this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it has neither the characteristics of Subpart C nor is listed in Subpart D. Federal, State, and Local laws governing disposal of material can differ. Ensure proper disposal compliance with proper authorities before disposal. Do not puncture, incinerate or compact aerosol can.

**Section 14 TRANSPORTATION INFORMATION**

NOTE: Flame projection testing in accordance with 16CFR1500.45 found no flame projection. May be classified as Consumer commodity, ORM-D

U.S. DOT Proper Shipping Name: AEROSOLS, non-flammable, (each not exceeding 1L capacity)

DOT Hazard Class: 2.2

UN Number: UN1950

DOT Labels required: Non-Flammable Gas

IATA Proper Shipping Name: AEROSOLS, non-flammable, (each not exceeding 1L capacity)

IATA Hazard Class: 2.2

UN Number: UN1950

IATA Labels required: Non-Flammable Gas

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| <b>Section 15</b> | <b>REGULATORY INFORMATION</b> |
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United States Federal Regulations:

MSDS complies with the OSHA Hazard Communication Rule, 29 CFR 1910.1200.

CERCLA/Superfund, 40 CFR 117. 302: **None of the chemicals have a reportable quantity**

**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): This product contains 2-Butoxyethanol (CAS# 111-76-2) at a weight of 10 – 15% and Diethylene glycol butyl ether (CAS# 112-34-5) at a weight of 1 - 5% which are found on the 313 list of Toxic Chemicals.

**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

**California Proposition 65:** This product also contains 0.6% n-Methyl-2-pyrrolidone which are known to the State of California to cause birth defects or other reproductive hazards.

INTERNATIONAL REGULATIONS:

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

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| <b>Sections 16</b> | <b>OTHER INFORMATION</b> |
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LABEL INFORMATION: For Shipping Label information refer to section 14

- Keep out of the reach of children (S2)
- Caution: Contents under pressure

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 |

ABBREVIATIONS USED IN THIS DOCUMENT:

NE – Not Established  
 NA – Not Applicable  
 NIF – No Information Found  
 F<sup>+</sup> - Extremely Flammable  
 Xi - Irritant  
 Xn - Harmful  
 R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed  
 R22 - Harmful if swallowed  
 R36 - Irritating to eyes  
 R36/38 - Irritating to eyes and skin

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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