

MSDS Information**Section 1 CHEMICAL PRODUCT SECTION**

Identification: Product Name: STATICIDE® ESD Safety Shield
Product Number: #6400

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

Manufacturer: ACL Incorporated
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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	111-76-2	203-905-0	10 – 15	Xn, Xi, R20/21/22, R36/38
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.

Section 5 FIRE FIGHTING MEASURES

Flash Point & Method: > 200°F (93.3° C) estimated

Autoignition Temperature: >200°C

Flammable Limits in Air (% by vol.) Lower: 1.1% (2-butoxyethanol) Upper: 10.8% (Diethylene glycol)

Fire Fighting Procedures: This product is not flammable or combustible. Use any media that is appropriate for the surrounding fire. Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Unusual fire and explosion hazards: Thermal decomposition products may be hazardous.

Hazardous Decomposition Products: Oxides of carbon, nitrogen, sulfur and unknown materials.

Section 6 ACCIDENTAL RELEASE MEASURES

Spill: 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.

Section 7 HANDLING AND STORAGE

Handling: 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.

Section 8 EXPOSURE CONTROL / PERSONAL PROTECTION

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
				50 ppm STEL
Diethylene Glycol Butyl Ether	NE	NE	100 Mg/m ³ 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.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid with ether-like odor.	Boiling Point: > 100°C
Evaporation Rate (Butyl acetate=1): .1 (2-butoxyethanol)	pH: 2.5
Solubility in Water: Soluble	% Volatile: >60%
Vapor Density (Air=1): > 7.75	VOC: 1.15lb/gal
Vapor pressure 0.6 mmHg@ 20C (2-butoxyethanol)	

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 LD₅₀ = 470-3000 mg/kg; Rabbit dermal LD₅₀ = 220-612 mg/kg; Rat inhalation LC₅₀ = 450ppm/4 hr
Diethylene glycol: Rat oral LD₅₀ = 12565 mg/kg; Rabbit dermal LD₅₀ = 11900mg/kg
Diethylene glycol butyl ether: Rat oral LD₅₀ = 5660 mg/kg; Rabbit dermal LD₅₀ = 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.

Section 14 TRANSPORTATION INFORMATION

U.S. DOT Proper Shipping Name: Not regulated
DOT Hazard Class: None
UN Number: None

IATA Proper Shipping Name: Not regulated
IATA Hazard Class: None
UN Number: None

Section 15 REGULATORY INFORMATION

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,

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 traces of ethyl acrylate, acrylamide and formaldehyde which are known to the State of California to cause cancer.

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).

Sections 16	OTHER INFORMATION
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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
16-FEB-10 EU format, new address, section 15, mkb

ABBREVIATIONS USED IN THIS DOCUMENT:

NE – Not Established
NA – Not Applicable
NIF – No Information Found
F+ - 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)
American National Standards Institute

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