

MSDS Information

Section 1 CHEMICAL PRODUCT SECTION

Product Name: STATICIDE® ESD Safety Shield
 Product Number: #6400S, 64001, 64005

Manufacturer: ACL Incorporated
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For Chemical Emergency,
 Spill, Leak, Fire Exposure,
 Or Accident Call INFOTRAC
 DAY OR NIGHT (01) 800.535.5053

Section 2 INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL	C.A.S. Number	Weight %
2-Butoxyethanol	111-76-2	5 - 10
Diethylene Glycol Butyl Ether	112-34-5	1 - 5
Diethylene Glycol	111-46-6	1-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Exposure Limits 8 Hours TWA (PPM)

	OSHA PEL	ACGIH TLV	DFG MAK	OTHER
2-Butoxyethanol	50 (skin)	20 ppm (skin)	10 ppm (skin)	25ppm TWA / 50 ppm STEL (UK WEL)
Diethylene Glycol Butyl Ether	NE	NE	100 mg/m ³	
Diethylene Glycol	10	NE	10	10 mg/m ³ TWA (AIHA WEEL)

Section 3 HAZARD IDENTIFICATION

Prolonged overexposure may damage the nervous system, blood and blood forming organs, kidneys and liver.

Potential Health Effects:

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 4 FIRST AID MEASURES

Inhalation: Remove affected person from source of exposure. If breathing is difficult, have a qualified person administer oxygen if available. Get immediate 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: Remove contaminated clothing and wash 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 unless directed to do so by medical personnel. 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
 Flammable Limits in Air (% by vol.) Lower: 1.1% (2-butoxyethanol) Upper: 10.8% (Diethylene glycol)
 Autoignition Temperature: >200°C

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.

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

Hazardous Decomposition Products: Oxides of carbon and nitrogen, fluorinated compounds 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

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

Boiling Point: > 100°C
 % Volatile by volume.....60%
 Vapor Pressure..... 0.6 mmHg @ 20°C (2-butoxyethanol)
 Vapor Density (Air=1).....> 1
 Evaporation Rate (Butyl Acetate=1)... 0.1 (2-butoxyethanol)
 VOC:81 lb/gal
 Solubility in Water..... Complete
 Physical State..... liquid
 Odor..... slight ether
 Appearance:..... Dark blue liquid

Section 10 STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage.

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

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, hydrogen chloride, chlorinated compounds, fluorinated compounds and 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: 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 Information: Basic Description: NON HAZARDOUS MATERIAL
Proper Shipping Name: NA

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**

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

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

Section 313 – List of Toxic Chemicals (40CFR 372): This product contains 2-Butoxyethanol (CAS# 111-76-2) at a weight of 5 – 10% 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. This product contains a chemical that is subject to a SNUR.

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

Refer to Section 13 for RCRA classification.

California Proposition 65: This product contains <0.0006% formaldehyde, which is known to the State of California to cause cancer. This product also contains 0.004% n-Methyl-2-pyrrolidone and <0.002% toluene, which are known to the State of California to cause developmental toxicity (birth defects).

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.

Europe EINECS Numbers: 2-Butoxyethanol #203-905-0

Diethylene Glycol Butyl Ether #203-961-6

Diethylene Glycol #203-872-2

Sections 16

OTHER INFORMATION

LABEL INFORMATION: For Shipping Label information refer to section 14

Product label warnings are as follows (Comparable EU Classes Risk phrases are noted):

- Irritant (Xi)
- Harmful (Xn)
- Harmful by inhalation, in contact with skin and if swallowed (R20/21/22)
- Harmful if swallowed (R22)
- Irritating to eyes (R36)
- Irritating to eyes and skin (R36/38)
- Keep out of the reach of children (S2)

NFPA RATING: (1) Health

(0) Flammability

(0) Reactivity

HMIS RATING: (2) Health

(0) Flammability

(0) Reactivity

REVISION DATES, SECTIONS, REVISED BY:

19-Sept-07 Original release date, 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)

American National Standards Institute

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