

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. 49th Place
Chicago, IL 60609
PH: (01) 847.981.9212 [U.S.A.]
FAX: (01) 847.981.9278 [U.S.A.]

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

2.1 Classification of the substance or mixture

Product definition: GASES UNDER PRESSURE - Liquefied gas

GHS-US classification

Physical: Aerosols -Cat 3

Health: Skin irritation – Cat 3

Health: Eye irritation – Cat 2B

Label Elements

Hazard Pictograms:



Signal Word: Warning

Hazard Statement:

H229: Contains gas under pressure; may burst if heated.

H315: Causes skin irritation

H320: Causes eye irritation

Precautionary Statements Prevention:

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves.

Precautionary Statements Response:

P302+P352: IF ON SKIN: Wash with plenty of water

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.

Precautionary Statements – Storage: P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F

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

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

Section 3	INFORMATION ON INGREDIENTS
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CHEMICAL	C.A.S.	Weight %	Classification
2-Butoxyethanol	111-76-2	10 – 15	Acute Tox. 4 Eye Irrit. 2 Skin Irrit. 2
Propane	74-98-6	5 - 10	Flammable gas 1
n-Butane	106-97-8	1 - 5	Flammable gas 1 Germ cell mutagenicity 1B Carcinogenicity 1A
Diethylene Glycol Butyl Ether	112-34-5	1 – 5	Eye irritation 2
Diethylene Glycol	111-46-6	1 – 5	Acute toxicity, oral 4 Specific target organ toxicity, repeated exposure 2
Water and other non-hazardous substances	Mixture	Balance	Not classified

Section 4	FIRST AID MEASURES
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Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when released, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Liquid can cause burns similar to frostbite.
Inhalation : No known significant effects or critical hazards.
Skin contact : 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

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

Indication of immediate medical attention and special treatment needed, if necessary

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.

Section 5	FIRE FIGHTING MEASURES
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5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Use dry chemical or foam. Use water to cool fire-exposed containers and to protect personnel.

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. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products: Decomposition products may include the following materials: Oxides of carbon, nitrogen, sulfur and unknown materials.

5.3 Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. 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: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Section 6

ACCIDENTAL RELEASE MEASURES

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 Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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.

Section 7

HANDLING AND STORAGE

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 in a segregated and approved area. 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: Unknown

Industrial sector specific solutions: Unknown

Section 8	EXPOSURE CONTROL / PERSONAL PROTECTION
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Chemical Name	OSHA PEL	ACGIH TLV	NIOSH REL
2-Butoxyethanol	TWA 50 ppm 240 mg/m ³	TWA 20 ppm Upper respiratory tract infection ; eye irritation	50 ppm TWA 240 mg/m ³ Potential for dermal absorbision
Propane	TWA 1000 ppm (8 hours) 1800 mg/m ³ (8 hours)	TWA 1000 ppm (8 hours)	TWA 1000ppm (10 hrs) 1800 mg/m ³ (10 hours)
n-Butane	NE	1000 ppm TWA 1000 ppm STEL Central Nervous System impairment	800 ppm 1900 mg/m ³
Diethylene Glycol Butyl Ether	NE	10 TWA	NE
Diethylene Glycol	NE	NE	NE

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.

Section 9	PHYSICAL AND CHEMICAL PROPERTIES
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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 (H ₂ O=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	200 g/l or 20% by weight
VOC w/o propellant	99.5 g/l or 10% by weight

Section 10	STABILITY AND REACTIVITY
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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.

Section 11	TOXICOLOGY INFORMATION
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Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Butoxyethanol	LC50 Inhalation	Rat	450ppm	4 hours
	LD50 dermal	Rat	220 mg/kg	Na
Propane	LC50 Inhalation	Rat	658 mg/L	4 hours
n-Butane	LC50 Inhalation	Rat	658 mg/L	4 hours
Diethylene Glycol Butyl Ether	LD50 oral	Rat	12565mg/kg	Na
	LD50 dermal	Rabbit	11900 mg/kg	Na
Diethylene Glycol	LD50 oral	Rat	5660 mg/kg	Na
	LD50 dermal	Rabbit	2700 mg/kg	Na

Irritation/Corrosion: Not available.

Sensitization: Not available.

Mutagenicity: Not available.

Carcinogenicity: Not available.
Reproductive toxicity: Not available.
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: Liquid can cause burns similar to frostbite.
Inhalation : No known significant effects or critical hazards.
Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion : Ingestion of liquid can cause burns similar to frostbite

Symptoms related to the physical, chemical and toxicological characteristics

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

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: Not available.

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
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: No known significant effects or critical hazards.
Other information: No known significant effects or critical hazards.

Section 12	ECOLOGICAL INFORMATION
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12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-Butoxyethanol	Not available.	Not available.	Not available.
Propane	Not available.	Not available.	Not available.
n-Butane	Not available.	Not available.	Not available.
Diethylene Glycol Butyl Ether	Not available.	Not available.	Not available.
Diethylene Glycol	Not available.	Not available.	Not available.

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-Butoxyethanol	Not available.	Not available.	Not available.	Not available.
Propane	Not available.	Not available.	Not available.	Not available.
n-Butane	Not available.	Not available.	Not available.	Not available.

Diethylene Glycol Butyl Ether	Not available.	Not available.	Not available.	Not available.
Diethylene Glycol	Not available.	Not available.	Not available.	Not available.

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Butoxyethanol	Not available.	Not available.	Not available.
Propane	Not available.	Not available.	Not available.
n-Butane	Not available.	Not available.	Not available.
Diethylene Glycol Butyl Ether	Not available.	Not available.	Not available.
Diethylene Glycol	Not available.	Not available.	Not available.

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-Butoxyethanol	Not available.	Not available.	Not available.
Propane	Not available.	Not available.	Not available.
n-Butane	Not available.	Not available.	Not available.
Diethylene Glycol Butyl Ether	Not available.	Not available.	Not available.
Diethylene Glycol	Not available.	Not available.	Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.

Mobility: Not available.

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.

Section 13	DISPOSAL CONSIDERATIONS
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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.

RCRA 40 CFR 261 Classifications: As packaged and after use, 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
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	Proper Shipping Name	Hazard Class	UN number	NOTE
US DOT ground	Consumer Commodity	ORM-D	NA	Flame projection testing in accordance with 16CFR1500.45 found no flame projection.
US DOT air	AEROSOLS, non-flammable, (each not exceeding 1L capacity)	2.2	UN1950	May be classified as Consumer commodity, ID 8000, class 9, Y963 packing instruction DOT Labels required: Non-Flammable Gas
IATA	AEROSOLS, non-flammable, (each not exceeding 1L capacity)	2.2	UN1950	IATA Labels required: Non-Flammable Gas
IMDG	AEROSOLS, non-flammable, (each not exceeding 1L capacity)	2.2	UN1950	Limited Quantity: Y203

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, 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).

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.

HMIS Protective Equipment: See supervisor or SDS

2	HEALTH
2	FLAMMABILITY
0	PHYSICAL HAZARD
x	PROTECTIVE EQUIPMENT

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

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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