

## Safety Data Sheet

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

<b>Section 1</b>	<b>CHEMICAL PRODUCT SECTION</b>
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**Identification:** Product Name: STATICIDE® ESD Safety Shield  
Product Number: #63001, 63005, 6300S, 64001, 64005, 6400S

**Product description:** Electrostatic dissipative coating for interior use on hard surfaces  
**Product type:** Acrylic liquid mixture  
**Application:** Industrial applications, professional applications. Interior use

**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:** US/Canada Emergency Telephone: INFOTRAC: (01) 800.535.5053 (day or night)  
International Emergency Telephone: INFOTRAC: 352.323.3500 (day or night)

<b>Section 2</b>	<b>HAZARD IDENTIFICATION</b>
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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.

### 2.1 Classification of the substance or mixture

**Product definition:** Mixture

**Physical:** None

**Health:** Eye irritation / category 2B  
Skin irritation / category 2

**Environmental:** None

### 2.2 Label Elements

**Hazard Pictograms:**



**Signal Word:** Warning

**Hazard Statement:**

Causes skin and eye irritation (H315 + H320)

**Precautionary Statements:**

**General:**

If medical advice is needed, have container or label at hand (P101)  
Keep out of reach of children (P102)  
Read label before use (P103)

**Prevention:**

Wash hands thoroughly after handling (P264)

**Response:**

**IF IN EYES**, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 +P351 + P338)

If eye irritation persists, get medical attention or advice (P337 + P313)

**IF ON SKIN**, wash with plenty of water. (P302 + P352)

If skin irritation occurs, get medical attention or advice (P332 + P313)

**Unknown Acute Toxicity:** No data available

<b>Section 3</b>	<b>INFORMATION ON INGREDIENTS</b>
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CHEMICAL	C.A.S.	Weight %	GHS Classification
2-Butoxyethanol	111-76-2	6 – 10	Flam. Liq. 4; H227 Acute Tox. 4; H302 + H312 + H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319
Diethylene Glycol Butyl Ether	112-34-5	1 – 5	Eye Irrit. 2A; H319
Diethylene Glycol	111-46-6	1 – 5	Acute Tox. 4; H302 STOT RE 2; H373
Acrylic Resin Blend	Proprietary	3 – 8	Not hazardous
Wetting agent	Proprietary	trace amount	Not hazardous
Water	7732-18-5	75 – 85	Not hazardous

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

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

*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.

*Protection of first-aiders:* No action shall be taken involving any personal risk or without suitable training. Wear gloves

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

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

Treat symptomatically.

<b>Section 5</b>	<b>FIRE FIGHTING MEASURES</b>
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**Protective equipment and precautions for firefighters:**

**5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** Not determined

**5.2 Special hazards arising from the substance or mixture:** Thermal decomposition products may be hazardous.  
**Hazardous Combustion Products:** Oxides of carbon, nitrogen, sulfur and unknown materials.

**5.3 Advice for firefighters:** 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.

**5.4 Further information:** No data available

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

Use personal protective equipment as required. For personal protection see section 8.

**6.2 Environmental precautions**

No special environmental precautions required.

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

Containment: Prevent further leakage or spillage if safe to do so. Halt spill at source and contain or dike spill with inert absorbent material.

Clean up: Transfer liquid to containers for recovery or disposal. Shovel absorbent into drums for disposal in accordance with local, state and federal regulations.

**6.4 Reference to other sections**

For disposal see section 13.

<b>Section 7</b>	<b>HANDLING AND STORAGE</b>
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**7.1 Precautions for safe handling**

Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety practice. Keep containers closed when not in use. For precautions see section 2.2

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place away from direct sunlight. Store in cool, dry, area away from excessive heat and incompatible

**Storage Conditions:** Ambient (40° - 90° F)

**Incompatible Materials:** None known based on information supplied.

**7.3 Specific end use(s) Apart from the uses mentioned in section 1.2**

Designed for static control areas in electronics manufacturing.

<b>Section 8</b>	<b>EXPOSURE CONTROL / PERSONAL PROTECTION</b>
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**8.1 Control parameters**

**Occupational exposure limits**

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 <sup>3</sup> MAK	NE
Diethylene Glycol	NE	NE	10 ppm MAK	NE

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

## 8.2 Exposure controls

### Appropriate engineering controls

**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.

### Individual protection measures, such as personal protective equipment

**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 Protection:** Chemical safety goggles recommended.

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

**Hand protection:** Gloves Recommended.

**Respiratory protection:** None required in well ventilated areas. An approved organic vapor full face respirator is advised for poorly ventilated areas.

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

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

Appearance	Translucent blue liquid
Odor	Reminiscent of ether
Odor threshold	Not determined
pH	2.5
Melting point/freezing point	Not determined
Initial boiling point and boiling range	>212F / 100°C
Flash point and method	> 200°F (93.3° C) estimated
Evaporation rate (butyl acetate = 1)	.1 (2-butoxyethanol)
Flammability (solid, gas, liquid)	Not flammable
Upper/lower flammability or explosive limits	Lower: 1.1% (2-butoxyethanol) Upper: 10.8% (Diethylene glycol)
Vapor pressure	0.6 mmHg@ 20C (2-butoxyethanol)
Vapor density (air=1)	> 7.75
Relative density	Not determined
Solubility(ies).	Soluble
Partition coefficient: n-octanol/water	Not determined
Autoignition temperature	>392F / 200°C
Decomposition temperature	Not determined
Viscosity (kinematic)	Not determined
Volatile by weight	: >60%

### 9.2 Other safety information

VOC	1.15lb/gal
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<b>Section 10</b>	<b>STABILITY AND REACTIVITY</b>
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**10.1 Reactivity** Stable under recommended storage conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** None under normal procession

**10.4 Conditions to avoid:** Heat, flames and sparks. Extremes of temperature and direct sunlight.

**10.5 Incompatible materials:** Strong acids, strong bases, oxidizing agents, amines.

**10.6 Hazardous decomposition products:** Hazardous Polymerization will not occur.

Combustion may produce carbon monoxide, carbon dioxide, Oxides of nitrogen, unknown materials.

**Other decomposition products:** In the event of fire: see section 5

<b>Section 11</b>	<b>TOXICOLOGY INFORMATION</b>
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### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose
Butyl Cellulolve 111-76-2	LC <sub>50</sub> dermal	Rabbit	1,060 mg/kg
	LD <sub>50</sub> oral	Rat	880 mg/kg
Diethylene Glycol Butyl Ether 112-34-5	LC <sub>50</sub> dermal	Rabbit	2,764 mg/kg
	LD <sub>50</sub> oral	Rat	7,291 mg/kg
Diethylene Glycol 111-46-6	LC <sub>50</sub> dermal	Rabbit	11,890 mg/kg
	LD <sub>50</sub> oral	Rat	12,565 mg/kg

**Conclusion/Summary :** Not available

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Exposure
Butyl Cellulolve 111-76-2	Eye irritation	Rabbit	24 hours
	skin irritation	Rabbit	20 hours
Diethylene Glycol Butyl Ether 112-34-5	Eye irritation	Rabbit	(OECD Test Guideline 405)
	Mild skin irritation	Rabbit	1 hours
Diethylene Glycol 111-46-6	No eye irritation	Rabbit	---
	No skin irritation	Rabbit	(OECD Test Guideline 404)

**Conclusion/Summary :** Not available

**Sensitization**

Product/ingredient name	Result	Species	Test
Butyl Cellulolve 111-76-2	Does not cause skin sensitization	Guinea Pig	OECD Test Guideline 406
Diethylene Glycol Butyl Ether 112-34-5	Does not cause skin sensitization	Guinea Pig	OECD Test Guideline 406
Diethylene Glycol 111-46-6	Does not cause sensitization on laboratory animals	Guinea Pig	Maximisation Test (GPMT)

**Conclusion/Summary:** Not available.

**Mutagenicity**

Product/ingredient name	Result	Species	Test
Butyl Cellulolve 111-76-2	Result: negative	Mouse, male	Method: OECD Test Guideline 474
Diethylene Glycol Butyl Ether 112-34-5	Negative	Drosophila melanogaster - male and female	OECD Test Guideline 477
	Negative	S. typhimurium	Ames Test
Diethylene Glycol 111-46-6	No data available	---	---

**Conclusion/Summary:** Not available.

**Carcinogenicity Conclusion/Summary:**

**IARC:** Butyl Cellulolve / 3 - Group 3: Not classifiable as to its carcinogenicity to humans

Diethylene Glycol Butyl Ether is not present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

Butyl Cellulolve: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Diethylene Glycol Butyl: No adverse effect has been observed in chronic toxicity tests.

Diethylene Glycol: No data available

**Conclusion/Summary:** Not available.

**Teratogenicity Conclusion/Summary:** Not available.

**Specific target organ toxicity (single exposure):**

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

**Aspiration hazard:** Not available.

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

<b>Section 12</b>	<b>ECOLOGICAL INFORMATION</b>
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**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
Butyl Cellulosolve 111-76-2	LC50 > 1474 mg/l	Oncorhynchus mykiss (rainbow trout)	96 hours
	Immobilization EC50 > 1515 mg/l	Daphnia (water flea)	48 hours
	Growth inhibition EC50 >	Pseudokirchneriella subcapitata (green algae)	72 hours
Diethylene Glycol Butyl Ether 112-34-5	LC50 > 1300 mg/l	Lepomis macrochirus	96 hours
	EC50 > 100 mg/l	Daphnia magna (water flea)	48 hours
	EC50 > 100 mg/l	Desmodesmus subpicatus	96 hours
	LC50 1170 mg/l	Pseudomonas putida	16 hours
Diethylene Glycol 111-46-6	LC50 > 75,200 mg/l	Pimephales promelas (fathead minnow)	96 hours
	LC50 > 5,000 mg/l	Carassius auratus (goldfish)	24 hours
	LC50 > 10,000 mg/l	Daphnia magna (water flea)	24 hours

**Conclusion/Summary :** Not available

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
Butyl Cellulosolve 111-76-2	OECD Test Guideline 301B	90.4 %	-	-
Diethylene Glycol Butyl Ether 112-34-5	OECD Test Guideline 301B	91.7%	-	-
Diethylene Glycol 111-46-6	OECD Test Guideline 301B	90 – 100%	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Butyl Cellulosolve 111-76-2	-	-	Readily biodegradable
Diethylene Glycol Butyl Ether 112-34-5	-	-	Readily biodegradable
Diethylene Glycol 111-46-6	-	-	Readily biodegradable

**Conclusion/Summary :** Not available

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Butyl Cellulosolve 111-76-2	No data	-	Not likely
Diethylene Glycol Butyl Ether 112-34-5	No data	-	Does not bioaccumulate.
Diethylene Glycol 111-46-6		100	Leuciscus idus melanotus - 3 d - 0.05 mg/l

#### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>):** 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. 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

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).

#### 13.1 Waste treatment methods

##### Product

**Methods of disposal:** Offer surplus and non-recyclable solutions to a licensed disposal company

**Hazardous waste:** The classification of the product does not meet the criteria for a hazardous waste.

##### Contaminated Packaging

**Methods of disposal:** Dispose of as unused product. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions:** Empty containers may contain product residue and may be dangerous.

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

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

**STATE REGULATIONS:**

The following chemicals are specifically listed by individual state; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state

STATE	CHEMICAL	C.A.S. NUMBER	WEIGHT %
PA, NJ	Diethylene glycol	111-46-6	1 – 5

**California Proposition 65:** This product does not contain chemicals which are known to the State of California to cause cancer, birth defects, or other reproductive harm.

**INTERNATIONAL REGULATIONS: 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).

**5.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization**  
**Substances of very high concern:** None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** Not applicable.

<b>Sections 16</b>	<b>OTHER INFORMATION</b>
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NFPA Health: Can cause significant irritation  
NFPA Fire: Will not burn  
NFPA Instability: Stable  
NFPA Reactivity: None



HMIS Health: Slight Hazard. Irritation or minor reversible injury possible.  
HMIS Flammability: Materials that must be preheated before ignition will occur.  
Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)  
HMIS Reactivity: Minimal Hazard. Stable  
HMIS Personal Protection: B. Safety glasses and protective gloves should be worn when handling this material.

1	HEALTH
1	FLAMMABILITY
0	REACTIVITY
B	PROTECTIVE EQUIPMENT

**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
20-July-12	Updated flammability rating, section 2, mkb
11-Dec-14	Section 2, mkb
07-Jan-16	Updated GHS elements, 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](http://www.epa.gov))  
American National Standards Institute

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