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ESD Floor Cleaner

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Description

Specially formulated, concentrated floor cleaning solution for effective cleaning and long term static control. Killstat floor cleaner removes contaminations from ESD flooring and ESD paint to ensure maximum efficiency. Suitable to use on either vinyl or rubber flooring. A ready-to-use, water-based solution - no dilution is required. The cleaner covers approx. 100 sq. meters. Solution is a translucent dark blue colour with a pleasant soap odour. The packaging label features the ESD susceptible symbol. Screw-cap and carry handle supplied.

Features

- Translucent dark blue in colour
- Pleasant soap odour
- Concentrated, water-based, liquid solution
- Ready-to-use, no dilution required
- Removes and cleans contaminations on ESD flooring
- Suitable for use on vinyl and rubber flooring
- Covers approx. 100 sq. meters
- 1 Gallon (4.54 litres)
- Handle for ease of carrying
- ESD susceptible symbol features on packaging

Compliant according to IEC-61340-1-5 International Standard

Compliant to RoHS and REACH standards

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

Section 1: Chemical Product & Company Identification

Recommend use: Industrial applications, professional applications.
Emergency telephone: INFOTRAC: (01) 800.535.5053 (day or night).
US/Canada Emergency TEL: INFOTRAC: (01) 800.535.5053 (day or night).
International Emergency TEL: INFOTRAC: 352.323.3500 (day or night).

Section 2: Hazardous Identification

2.1 Classification of the substance or mixture
Product definition: Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] & (US) OSHA HCS 2012:

Physical/chemical hazards: **Not classified**
Human health hazards: **Not classified**
Environmental hazards: **Not classified**

2.2 Label elements
Hazard pictograms: **None**
Signal word: **None**
Hazard statements: **None**

Precautionary statements
General 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.

Prevention:
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: No required response labelling.

Storage: P405: Store locked up. See section 7 for storage details.

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Disposal: P501: Dispose of contents/container in conformance with State, Local, and Federal regulations. See section 13 for disposal details.

Hazardous ingredients: NA.

Supplemental label elements: NA.

Annex XVII: Not applicable.

Special packaging requirements
Containers to be fitted with child-resistant fastenings: Not applicable.
Tactile warning of danger: Not applicable.

Section 3: Composition / Information On Ingredients

CHEMICAL	C.A.S.	Classification	Weight %
Deionized Water	7732-18-5	Not classified	55 - 75
Propretary surfactants	68439-46-3	Eye Irrit. 2A, H319	5 - 10
Tallow amine ethoxylated ethyl sulfate	68071-95-4	Skin Irrit. 2, H315 Eye Irrit. 2A, H319	5 - 10

Section 4: First Aid Measures

4.1 Description of first aid measures
*Inhalation***:** Move to fresh air.

Eye Contact: Immediately flush eyes with large amounts of cold water for 15 minutes while holding eyelids open. If irritation persists, get medical attention.

*Skin Contact***:** If irritated, Wash with soap and water. Get medical attention if irritation persists.

Ingestion: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. NOTE: Never give an unconscious person anything to drink.

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

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed

- Information for doctor: treat symptomatically.

Section 5: Fire Fighting Measures

5.1 Extinguishing media
Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media: no restrictions.

5.2 Special hazards arising from the substance or mixture
Hazards from the substance or mixture: unknown.
Hazardous thermal decomposition products: unknown.

5.3 Advice for firefighters
Special protective actions for fire-fighters: Cool endangered receptacles with water spray. Remove containers from path of fire when safe to do so. Do not approach containers suspected to be hot.
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.

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. Wear appropriate respirator when ventilation is inadequate.

For emergency responders: Not determined.

6.2 Environmental precautions
Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material . Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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6.3 Methods and materials for containment and cleaning up
Small spill: Clean up all spills immediately.

- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up, Place in a suitable, labeled container for waste disposal.

Large spill: Clear area of personnel and move upwind.

- Alert Fire Department and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labeled containers for recycling.
- Neutralise/decontaminate residue (see Section 13 for specific agent).
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing.

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 & 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: Wash thoroughly after handling. Use only in a well ventilated area. Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace. Wear protective clothing.
When diluting always pour product into water and not vice versa.

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Advice on general occupational hygiene:
7.2 Conditions for safe storage, including any incompatibilities:
Store in a cool dry place in original container and protect from sunlight.
Keep container tightly sealed. Store in original container away from foodstuff containers.

7.3 Specific end use(s):
Recommendations: Concentrated cleaner for anti-static flooring, ESD paint and concrete. When diluting always pour product into water and not vice versa.
Industrial sector specific solutions: Unknown.

Section 8: Exposure Control / Personal Protection

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)					
		Exposure Limits			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	Mg/m^3	ppm	Mg/m^3
Proprietary surfactants	TWA	NE	NE	NE	NE
CAS 68439-46-3	STEL	NE	NE	NE	NE
Ethylbis (hydroxyethyl)tallow alkyl,	TWA	NE	NE	NE	NE
ethoxylated, Et sulfates	STEL	NE	NE	NE	NE
CAS 68071-95-4					

Recommended monitoring procedures: Not established.
DNELs/DMELs: No DNELs/DMELs available.
PNECs: No PNECs available.

8.2 Exposure controls
Appropriate engineering controls: General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

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.

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Eye/face protection: For normal conditions, once diluted to use as per instructions, may use without safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.
Skin protection: Avoid prolonged or repeated skin contact. Impervious gloves such as nitrile, neoprene or rubber are recommended.
Hand protection: Gloves Recommended. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Body protection Acid resistant protective clothing, rubber boots.
Other skin protection: Clean up of spills may require clothing protection.
Environmental exposure controls: Limitation and supervision of exposure into the environment. Avoid discharging full concentrate into municipal wastewater, surface water or soils, when such discharges are expected to cause significant pH changes.

Regular control of the pH value previous to or during discharges into open waters is required. Discharges should be carried out as to minimize pH changes in receiving surface waters. In general most aquatic organisms can tolerate pH values in the range of 6-9.

Section 9: Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Dark blue translucent liquid
Odor	Pleasant soap
pH	7 - 9
Melting point/freezing point	-1C / 30F
Initial boiling point and boiling range	98.89C / 212F
Flash point and method	Not determined
Evaporation rate	Not determined
Flammability (solid, gas, liquid)	Not flammable
Upper/lower flammability or explosive limits	Not determined
Vapor pressure	Not determined
Vapor density (air=1)	Not determined
Relative density	Not determined
Solubility(ies).	Complete
Partition coefficient: n-octanol/water	Not determined

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Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	10 - 15
Volatile by weight	Not determined

9.2 Other safety information

Specific Gravity	Not determined
VOC	Not determined

Section 10: Stability & Reactivity

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.
10.5 Incompatible Materials: Strong oxidising agents, strong acids.
10.6 Hazardous decomposition products: Carbon Monoxide and other toxic vapours.
Carbon Oxides, nitrogen oxides, sulfur oxides
Hazardous polymerisation: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11: Toxicology Information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Proprietary surfactants CAS 68439-46-3	LD50 dermal LD50 oral	Rabbit Rat	>2000 mg/kg >2000 mg/kg	-- --
Tallow amine ethoxylated ethyl sulfate CAS# 68071-95-4	LD50 oral	rat	2,000 mg/kg	Na

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Irritation/Corrosion:

Product/ingredient name	Result	Species	Exposure
Proprietary surfactants CAS 68439-46-3	Causes skin irritation	--	---
Tallow amine ethoxylated ethyl sulfate CAS# 68071-95-4	Eye irritation* May skin irritation*	---- ----	--- ---

*Patch test on human volunteers did not demonstrate irritating properties.

Sensitization:

Product/ingredient name	Result	Species	Test
Proprietary surfactants CAS 68439-46-3	Not expected	---	---
Tallow amine ethoxylated ethyl sulfate CAS# 68071-95-4	No data*	---	----

*Patch test on human volunteers did not demonstrate irritating properties.

Mutagenicity: Not available.
Carcinogenicity:
IARC: No component of this product 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.

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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: 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, Symptoms related to the physical, chemical and toxicological characteristics, Delayed and immediate effects and also chronic effects from short and long term exposure.

Eye contact: Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present 24 hours or more after instillation into the eye(s) of experimental animals.

Inhalation: The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models) . Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Skin contact: Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions .. Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact.

Dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis . At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

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Open cuts, abraded or irritated skin should not be exposed to this material . Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects . Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Ingestion : Accidental ingestion of the material may be damaging to the health of the individual.

Potential chronic health effects: Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

Section 12: Ecological Information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Proprietary surfactants CAS 68439-46-3 (based on similar substance)	10 - 100 mg/l 5 - 10 mg/l 5 - 10 mg/l	Algae Daphne Fish	72 hours 48 hours 96 hours
Ethylbis (hydroxyethyl)tallow alkyl, ethoxylated, Et sulfates	Not available.	Not available.	Not available.

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result
Proprietary surfactants CAS 68439-46-3		Readily biodegradable.
Tallow amine ethoxylated ethyl sulfate CAS# 68071-95-4	OECD Test Guideline 301B	Not biodegradable. Expected to be biodegradable only at low concentrations or when its germicidal action has been effectively neutralized.

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	
Proprietary surfactants CAS 68439-46-3	
Tallow amine ethoxylated ethyl sulfate CAS# 68071-95-4	No data available

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12.4 Mobility in soil
Soil/water partition coefficient (KOC): Not available.
Mobility: Not available.

12.5 Results of PBT and vPvB assessment
PBT: Not available.
vPvB: Not available.
12.6 Other adverse effects: Do not discharge into waterways.

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:

- RCRA 40 CFR 261 Classifications: As packaged and after use, it does not meet the criteria of a hazardous waste as defied 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.

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Section 14: Transportation Information

	Proper Shipping Name	Hazard Class	UN number	NOTE
US DOT ground	Non Hazardous Material	NA	NA	
US DOT air	Non Hazardous Material	NA	NA	
IATA	Non Hazardous Material	NA	NA	
IMDG	Non Hazardous Material	NA	NA	

Section 15: Regulatory Information

United States Federal Regulations:
SDS 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 313 – List of Toxic Chemicals (40CFC 372): This product does not contain chemicals (at level of 1% or greater) found on the 313 list of Toxic Chemicals.

Toxic Substance Control Act (TSCA): **All substances are TSCA listed.**

STATE REGULATIONS:
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 MSDS contains all the information required by the CPR.

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 authorisation
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.

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Section 16: Other Information

NFPA HAZARD RATING: (0) Fire (1) Health (0) Reactivity
HMIS: (0) Flammable (1) Health (0) Physical Hazard (D) Personal protection

REVISION DATES, SECTIONS, REVISED BY:

15-Mar-92,	Original release date
27-Nov-07,	Reviewed all sections, Revised Section 2, mkb
15-Apr-09,	Reviewed all sections, Revised to EU format, mkb
07-DEC-09	Section 3 correction, mkb
03-Mar-11	Updated product name, mkb
31-Jan-12	Section 2 GHS, section 3 Risk phrases, mkb
01-Nov-12	Section 2 GHS classifications, mkb
27-Oct-15	GHS updates, mkb
10-Nov-15	Section 2 correction, mkb
22-Jan-16	Updated GHS classification, 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: http://www.sigmaaldrich.com/
Chemical Guide and OSHA Hazardous Communication Standard
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
The Environmental Protection Agency (www.epa.gov)

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