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ALLIED INTERNATIONAL

6700 Caballero Blvd.,
Buena Park, CA. 90620

S D S SAFETY DATA SHEET

1. Product and company identification

Product Name Freezer Cleaner
UN/ID No. DOT (U.S.): Not Regulated

Recommended use of the chemical and restrictions on use:

Recommended use: Low Temperature Cleaner Industrial and Institutional Use Only

Manufacturer: Allied International
6700 Caballero Blvd,
Buena Park, CA. 90620

In case of emergency: **FOR CHEMICAL EMERGENCY**
Spill, Leak, Exposure or Incident
Call INFOTRAC • 24-Hour Number
1-800-535-5053 or +1-352-323-3500 (outside USA)

Product type: Blend

2. Hazards identification

Appearance: Clear Liquid	Physical State: Liquid	Odor: Mild
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Classification

Flammable Liquid	Category 4
Acute oral Toxicity	Category 4
Skin Irritation	Category 2
Serious Eye Irritation	Category 2A
Aspiration Hazard	Category 1

Signal Word: Warning



Hazard Statement:

H227: Combustible Liquid
H302: Harmful if swallowed
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H319: Causes serious eye irritation

Precautionary Statements – Preventions:

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Keep container closed

Keep out of Reach of Children

Precautionary Statements – Response:

Immediately call a poison control center or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Continue rinsing immediately call a poison control center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison control center or doctor/physician

IF SWALLOWED: Immediately call a poison control center or doctor/physician. Rinse mouth, do not induce vomiting

Precautionary Statements – Storage:

Store locked up. Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements –Disposal:

Disposed of contents/container in accordance with local, regional, and national regulations

Potential Health Effects:

Inhalation: Inhalation can cause irritation to the respiratory tract.

Skin: Contact can cause irritation

Eyes: Contact can cause irritation

Ingestions: Ingestion can cause gastrointestinal irritation and other injury. Aspiration hazard if swallowed.
No not ingest.

Other Information: Keep out of reach of children

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
2-Butoxyethanol	111-76-2	<3.00

Other components below reportable levels

4. First aid measures

Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses if able to do so and continue flushing for at least 15 minutes. Immediately call a poison control center or doctor/physician
Skin contact:	If on Skin (or hair): Remove/Take off immediately all contaminated clothing. Flush with plenty of water/shower. Wash contaminated clothing before reuse. If irritation persists, seek medical attention.
Inhalation:	If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately call a poison control center or doctor/physician.
Ingestion:	Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately call a poison control center or doctor/physician.
Symptoms	Most important symptoms and effects: Causes severe skin burns and eye damage. May cause respiratory irritation. Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, and esophagus and stomach.
Note to physician	Treat symptomatically

5. Fire-fighting measures

Flammability Overview:	Combustible liquid and vapor
Suitable Extinguishing media:	Use Alcohol resistant Foam, Water spray, dry powder or carbon dioxide. Jet water spray may cause frothing and splattering or burning material
Unsuitable Extinguishing media:	No data available
Special hazards arising from chemical:	Material may be ignited only if preheated to high temperatures. Container holding this material may explode in the heat or fire. Empty containers may still contain residual material that can ignite and/or result in explosion.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions: Avoid contact with skin, eyes or clothing. May cause surface to become slippery. Collect spillage with approved absorbent or sand. Use personal protective equipment as required

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal considerations, for additional information

Methods for cleanup and containment of material:

Methods of containment Prevent further leakage or spillage if safe to do so. Contain and collect spillage with sand, earth, diatomaceous earth, vermiculite and place in container for disposal according to local / national regulations (see Section 13).

7. Handling and storage

Handling: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

Storage Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Keep away from heat, sparks, and flame.

Incompatible Materials Avoid contact with oxidizers

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

1US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
1,2 Propanedios CAS #57-55-6	TWA	10 mg/m ³	Aerosol

Material	Type	Value
2-Butoxyethanol CAS# 111-73-2	PEL	240 mg/m ³ 50 ppm

US. ACGIH Threshold Limit Values

Material	Type	Value
2-Butoxyethanol CAS# 111-73-2	TWA	20 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

2-Butoxyethanol CAS# 111-73-2	TWA	24 mg/m ³
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Biological limit value

ACGIH Biological Exposure indices

Material	Value	Determinant	Specimen
2-Butoxyethanol CAS# 111-73-2		Butoxyacetic Acid (BAA), with hydrolysis	Creatinine in urine

Chemical name	ACGIH-TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Exposure guidelines

US – California OELs: Skin designation

2-Butoxyethanol CAS# 111-73-2 Can be absorbed through the skin

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol CAS# 111-73-2 Can be absorbed through the skin

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol CAS# 111-73-2 Can be absorbed through skin

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering control to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protections measures, such as personal protective equipment

The following are recommendations for personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin Protection/Hand Protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If engineering controls do not maintain airborne, concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary
General hygiene considerations	When using, do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Physical state	Liquid
Color	Clear
pH	12
Melting Point/Freezing Point	N/A
Solubility in Water	100%
Evaporation Rate	0.1 (butyl acetate -1)
Flammability (solid, gas):	N/A
Flammability /Explosion Limits	N/A

10. Stability reactivity

Stability	Stable under recommended storage conditions
Hazardous polymerization	Hazardous polymerization does not occur
Conditions to avoid	Excessive heat. Avoid direct sunlight. Contact with acids
Materials to avoid	Strong mineral acids, Strong acids. Oxidizers.
Hazardous decomposition products	Under fire conditions: Carbon Oxides.

11. Toxicological information**Information on likely routes of exposure**

Eye Contact	Causes serious eye irritation
Skin Contact	Harmful in contact with skin. Causes skin irritation 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans
Inhalation	Harmful if inhaled
Ingestion	Harmful if swallowed

Symptoms related to the physical, chemical and toxicological characteristics:

Headache, nausea, vomiting, severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation, may cause redness and pain.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC 50
Sodium Hydroxide 1310-73-2	-	=1350 mg/kg (Rabbit)	-

Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation

Respiratory or skin sensitization

Respiratory sensitization: Not a respiratory sensitizer

Skin sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity:

2-Butoxyethanol CAS# 111-73-2 - 3 – Not classifiable as to carcinogenicity to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052): Not regulated

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: Not classified

Aspiration hazard: Not an aspiration hazard.

Chronic effects: May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging affect on the environment.

Product	Species	Test Results
1,2 Propanediol CAS# 57-55-6		
Aquatic		
Crustacea EC50	Water flea (Daphnia magna)	>10000 mg/l, 48 hours
Fish LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours
Product	Species	Test Results
2-Butoxyethanol CAS# 111-73-2		
Aquatic		
Fish LC50	Inland silverside (Medidia beryllina)	1250 mg/l, 96 hours
Sodium Hydroxide 1310-73-2		
Aquatic		
Fish LC50	Bluegill sunfish 48 hr LC50	99mg/L

Persistence/Degrability: No data available on the degradability of this product

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

0.83

Mobility in soil: No data available

Other Adverse Effects: The product contains volatile organic compounds which have a photochemical ozone creation potential

13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a license waste contactor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contract with soil, waterways, drains and sewers. Dispose of contents and container according to the local, city, state and federal regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Controls/Personal Protection for additional handling information and protection of employees.

14. Transport information

DOT (U.S.): Not Regulated

15. Regulatory information

California State Regulations:

U.S. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. Other information

HMIS	Health Hazards	Flammability	Reactivity	Personal Protection
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Disclaimer

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet