MATERIAL SAFETY DATA SHEET



FRIGOCHILL

HMIS NFPA			Personal protective equipment			
Health	3	3	and a second second			
Fire Hazard	0	0				
Reactivity	0	0				

Version Number: 2 Preparation date: 2005-09-29

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: FRIGOCHILL

MSDS #: 88521500269

Product code: 88521500269, 3514023, 3514031

Recommended use: Cleaner.

Manufacturer, importer, supplier:

FMC FoodTech Inc. P.O. Box 98 1719 Cannon Road Northfield, MN 55057 Phone: 1-800-433-

6320

Emergency telephone number: 1-800-451-8346

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER. CORROSIVE TO EYES. Causes eye burns. Moderately irritating to the skin. HARMFUL OR FATAL IF SWALLOWED.

Principle routes of exposure: Eyes. Skin. Inhalation.

Skin contact: Moderately irritating to the skin.

Eye contact: Corrosive. Causes permanent eye damage, including blindness.

Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.

Ingestion: Corrosive. Causes burns to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS#	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alcohol ethoxylates	68131-39-5	50 - 60%	2 g/kg (rat)	Not available	Not available
Diethylene glycol butyl ether	112-34-5	10 - 20%	4500 mg/kg (rat)	2700 mg/kg (rabbit)	Not available

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical

attention immediately.

Skin contact: Flush immediately with plenty of water. If irritation persists, get medical attention. If breathing is affected, remove to fresh air. Get medical attention immediately.

Ingestion: Do not induce vomiting. Immediately drink one cupful of water or milk. Never give anything by mouth to an

unconscious person. Get medical attention immediately.

Aggravated Medical Conditions: Persons with pre-existing skin disorders may be more susceptable to irritating effects, Individuals with

chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more

susceptible to irritating effects .

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.

Specific hazards: Not applicable Unusual hazards: None known

Specific methods: No special methods required

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Extinguishing media which must not be used for safety reasons: No information available

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment

Environmental precautions Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a and clean-up methods:

chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin, eves and clothing. Do not taste or swallow, Use only with adequate ventilation, Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDÚSTRIAL USE ONLY. FOR COMMERCIAL AND INDUSTRIAL USE ONLY

Keep tightly closed in a dry, cool and well-ventilated place. Protect from freezing. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eye protection: Chemical splash goggles.

Chemical resistant gloves Includes neoprene gloves Hand protection:

If major exposure is possible, wear suitable protective clothing and footwear. Skin and body protection:

No special requirements under normal use conditions. In case of insufficient ventilation wear suitable Respiratory protection: respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI

Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Appearance: Aqueous solution Color: Light yellow Boiling point/range: Not determined No information available Melting point/range: Not determined Odor:

Specific gravity: No information available pH: 7.0

Dilution pH: No information available. Density: No information available. **Bulk density:** No information available **Decomposition temperature:** Not determined Vapor density: No information available Autoignition temperature: No information available

Evaporation rate: No information available Solubility: Soluble

Solubility in other No information available VOC: No information available

solvents:

Viscosity: No information available Flash point: >200 (°F) >93.3 (°C)

Partition coefficient (n-octanol/water): No information available

10. STABILITY AND REACTIVITY

Stability: The product is stable

Hazardous polymerisation does not occur. Polymerization:

Hazardous decomposition products: None reasonably foreseeable.

Materials to avoid: Oxidising agents. Do not mix with chlorinated products .

TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 estimated to be between 2000 - 3000 mg/kg

Component Information: See Section 3 **Chronic toxicity:** None known

Specific effects

Carcinogenic effects: None known Mutagenic effects: None known Reproductive toxicity: None known Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: When used for its intended purpose this product should not cause adverse effects in the environment

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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on the following inventories: All components of this product are listed on the following inventories: , U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient	CAS#	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Alcohol ethoxylates	68131-39-5	-	-	-	-	-	-
Diethylene glycol butyl ether	112-34-5	-	Listed	Listed	-	-	-
Water	7732-18-5	-	-	-	-	-	-

CERCLA / SARA

Ingredient	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Diethylene glycol butyl ether	112-34-5	10 - 20%			Listed.

SARA 311/312 Hazard Categories

Immediate: Y
Delayed: N
Fire: N
Reactivity: N
Sudden Release of Pressure: N

Canada

WHMIS hazard class: D2B Toxic materials .



16. OTHER INFORMATION

Reason for revision:
Prepared by:
Additional advice:
Not applicable
NAPRAC
None

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