

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Freezer Cleaner FS
Description: Cleaning Agent
Product Code: NTN FCFS
Suggested Use: Food Safe Freezer Cleaner
Restrictions on Use: For industrial and institutional use only

Supplier: NuTech Specialties, Inc.
9811 South 6150 West
West Jordan, UT 84081
Telephone: 801-253-1000 (M-F) 8:00-5:00
Fax: 801-280-0307
Emergency Phone: 800-633-8253

2. HAZARDS IDENTIFICATION

Classification:

GHS Classification: Serious eye damage/Eye irritation: 2A
Reproductive Toxicity: 1B
Specific target organ toxicity (single exposure) 3
Flammable liquids: 3

GHS Label Elements

Pictogram:



Signal Word:

Hazard Statements: Causes serious eye irritation
May damage fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness
Flammable liquid and vapor

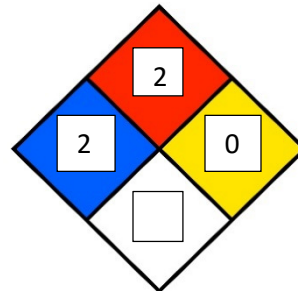
Precautionary Statements:

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

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Wash hands and any exposed skin thoroughly after handling.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in well ventilated area
Keep away from heat/sparks/open flames/hot surfaces.-No smoking
Keep container tightly closed
Ground container and receiving equipment
Use explosion proof electrical equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear eye-face protection
Wear protective gloves

HMIS Classification:



NFPA Rating:

Health	2
Fire	2
Reactivity	0
Personal Protection	C

Potential Health Effects:

Causes eye irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	Concentration
Propylene glycol monomethyl ether	107-98-2	30-60%
Isopropanol	67-63-0	15-40

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Synonyms:

4. FIRST AID MEASURES

If Inhaled: If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced

Skin Contact: Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Immediately call a doctor or physician.

If Ingested: Do not induce vomiting unless instructed to do so by physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

5. FIREFIGHTING MEASURES

Extinguishing Media: Use water-spray, alcohol resistant foam, dry chemical, or carbon dioxide

Hazardous Combustion Products: Firefighting personnel should respond with appropriate protective clothing, firefighting gear, and breathing equipment as trained.

Special Protective Equipment for Firefighters: In fire conditions: a complex mixture of airborne solids, liquids, and gases including Carbon Monoxide, Carbon Dioxide, and unidentified organic compounds.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Always ensure adequate ventilation.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent from entering drains and waterways. Discharge into environment must be avoided.

Containment and Clean Up: Soak up with inert absorbent material and dispose of. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Safe Handling: Keep away from flames and hot surfaces. Use personal protective equipment. Always ensure adequate ventilation.

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Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials. Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	ACGIH TLV	OSHA PEL	NIOSH
Propylene glycol monomethyl ether 107-98-2	STEL: 150 ppm TWA: 100 ppm	(vacated) TWA: 100 ppm (vacated)TWA 360 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m ³	TWA: 100 ppm TWA 360 mg/m ³ TWA: 100 ppm STEL: 540 mg/m ³
Isopropanol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) 400 ppm (vacated) 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm (vacated) 400 ppm (vacated) 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

Personal Protective Equipment

Eye Protection: Tightly fitting safety glasses or goggles should be sufficient. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical resistant gloves. Gloves must be inspected prior to use. Wash and dry hands after use.

Skin Protection: Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full face respirator with appropriate cartridges. Always ensure adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Pink
Odor:	Alcohol
Odor Threshold:	No information available
pH:	10.-11.0

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Melting/Freezing Point:	No information available
Boiling Point:	82°C/180°F
Flash Point:	28°C/82°F ASTM D56
Evaporation Rate:	<1
Flammability (Solid, Gas):	No information available
Flammability/Explosion Limits:	No information available
Vapor Pressure @ 20°C:	No information available
Vapor Density:	No information available
Specific Gravity:	0.95
Density:	No information available
Solubility in Water:	Soluble in water
Partition Coefficient:	No information available
Auto Ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity @ 40°C:	No information available

10. STABILITY AND REACTIVITY

Chemical Stability:

Conditions and Materials to Avoid:

Hazardous Decomposition Products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity- Not determined

Component	CAS Number	Test
Propylene glycol monomethyl ether	107-98-2	Oral LD50 =5200 mg/kg (rat) Dermal LD50 -13000 mg/kg (rabbit)
Isopropanol	67-63-0	Inhalation LC50 =54.6 mg/L (rat) 4h>24 mg/L (rat) 1h Oral LD50 =4396 mg/kg (rat) Dermal LD50 -12800 mg/kg (rat) 12870 mg/kg (rabbit) Inhalation LC50 =72.6 mg/L (rat)

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Potential Health Effects

Inhalation:	Nasal discomfort and coughing. May cause irritation of respiratory tract. May cause drowsiness or dizziness
Skin:	Drying of skin
Eyes:	Pain, redness, swelling of the conjunctiva and blurred vision
Ingestion:	Data not available or insufficient for classification
Signs and Symptoms of Exposure:	
Chronic Effects of Long Term Exposure:	
Carcinogenicity:	

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral):	8307 mg/kg
ATEmix (dermal):	21635 mg/kg
ATEmix (inhalation-dust/mist):	484.3 mg/l

12. ECOLOGICAL INFORMATION

13.

Ecotoxicity

Chemical Name	Algae/Aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Propylene glycol monomethyl ether 107-98-2	Not Available	20.8:96 h Pimephales promelas mg/L LC50 static 4600*10000:96 h Leuciscus idus mg/L LC50 static	Not Available	23300: 48 h Daphnia magna mg/L EC50
Isopropanol 67-63-0	1000:96 h Desmodesmus subspicatus mg/L EC50 1000:72 h Desmodesmus subspicatus mg/L EC50	9640:96 h Pimephales promelas mh/L LC50 flow-through 11130:96 h Pimephales promelas mg/L LC50 static 1400000:96 h Lepomis macrochirus mg/L LC50	Not Available	13299: 48 h Daphnia magna mg/L EC50

Ecological Effects

Persistence and Degradability:	No information available
Bioaccumulation Potential:	No information available
Mobility in Soil:	No information available
Other Adverse Effects:	No information available

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14. DISPOSAL CONSIDERATIONS

Disposal: Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region.

Contaminated Packaging: Dispose of as unused product.

15. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name: Flammable liquids, n.o.s., (contains isopropanol)

UN Number: UN1993

Hazard Class: 3

Packing Group: III

Reportable Quantity (RQ):

Marine Pollutant:

Note:

Class 3, Packing group III material meet the exception requirements of section 49 CFR 173.150 when individual containers of not more than 1.3 gallons are packed in strong outer packaging and ground transportation is utilized. Such containers may be reclassified as "limited Quantity".

Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

16. REGULATORY INFORMATION

US Federal

SARA 302 Components:

SARA 311/312 Hazards: Acute health hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

SARA 313 Components: This product contains isopropanol, CAS #67-63-0 only if manufactured by the strong acid process, no supplier notification.

TSCA Inventory: Exempt

European Union

EC Inventory: No

State Regulations

Utah Clean Air: No

17. OTHER INFORMATION

SDS Version: 1.0
Revision Date: 05/05/2015
Supercedes: New to GHS

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or the completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

NuTech Specialites, Inc.

Validated on:

Product: Freezer Cleaner FS