

MATERIAL SAFETY DATA SHEET

Product Name : 449

Date Issued : January 17, 2012

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: 449
Formula : Multi-component mixture

Chemical Synonym / C# : 449
Chemical Family: Detergent blend

Supplier : Specialty Chemicals Inc. 208 Widedon Landing Hilton, NY 14468

Information Telephone : (585)752-2320

Emergency Telephone : (607)529-3218

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)	ACGIH TLV (mg/m3)	
			TWA	STEL
Propylene Glycol	57-55-6	< 10.0	-	-
Protein Enzyme Concentrate	9001-62-1	< 5.0	-	-

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 3 : HAZARD IDENTIFICATION

Emergency Overview : Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire MSDS for a more thorough evaluation of the hazards.

POTENTIAL HEALTH EFFECTS: Acute: May cause severe irritation to the eyes. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract.

Chronic: May cause irritation of the skin, respiratory airways, mucous membranes and eyes.

Inhalation: No test data found for this product.

Skin Contact: No test data found for this product.

Eye Contact: No test data found for this product.

Ingestion: No test data found for this product.

SECTION 4 : FIRST AID MEASURES

General:

Eye Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes, holding eyelids open. Contact a physician for treatment.

Skin Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes. If irritation persists, contact a physician for treatment. Clean contaminated clothing before reuse.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove victim to fresh air. If irritation persists, seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give 1-2 glasses of water to drink, if conscious and alert.

Notes to physician : treat symptomatically. No specific antidote available. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point : None **Method Used:** N/A **Flammable Limits:** LEL = N/A UEL = N/A

Extinguishing Media: None required.

Fire Fighting Procedures: Use caution when fighting any fire. Adequate respiratory protection is essential.

Unusual Fire and Explosion Hazards: None known.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Small Spill: Absorb with suitable absorbant such as sand or vermiculite.

Large Spill: Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

Solid spill: Sweep up and return to container.

SECTION 7 : HANDLING AND STORAGE

Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, liquids may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity. Handle with care. Wash thoroughly after handling.

Storage Requirements: Keep container closed. Store in an area that is dry and well-ventilated, away from incompatible materials (see section10). For Industrial and commercial use only!

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: None required.

Ventilation / Local Exhaust : General room ventilation.

Ventilation / Mechanical Recommendations: None required.

Skin Protection: Vinyl or rubber protective gloves.

Eye Protection: Goggles or face shield.

Other Protective Equipment: Vinyl apron (optional).

Exposure Guidelines: See section 2 for ACGIH recommendations for each hazardous ingredient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Clear water-white liquid, odor nil.

Water Solubility: Complete

pH (1%): 7.0 - 8.0

Specific Gravity: 1.003

Boiling Point (°F): 212+

Evaporation Rate(water=1): 1.0

% volatile: None

Vapor Density(air=1): N/A

Vapor Pressure(mmHg): N/A

SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: None.

Chemical Stability: Stable.

Conditions to Avoid: Avoid contact with hot solutions, splashing solutions, prolonged skin contact.

Incompatibility with other Substances: Acids, oxidizers

Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Data: Toxicological studies were not performed on the blended product, although it is considered to be a severe eye irritant, and moderately irritating to the skin.

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Toxicological Data (as Propylene Glycol):

Skin : LD50 (rabbits) = > 10,000 mg/kg

Ingestion : oral LD50 (rats) = 20,000 - 34,000 mg/kg

Toxicological Data (as Protein Enzyme Concentrate): No data found.

Carcinogenicity: This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

SECTION 12 : ECOLOGICAL INFORMATION

Exotoxicological Information: No data found for this product.

Environmental Effects: No data found for this product.

Persistence and Degradation: No data found for this product.

Environmental Fate (as Propylene Glycol) :

Movement and Partitioning : Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Log octanol/water partition coefficient (log Pow) = -0.92. Henry's Law Constant (H) = 1.2E-8 atm. m³/mole.

Degradation and Persistence : Biodegradation under aerobic static laboratory conditions is high (BOD₂₀ or BOD₂₈/ThOD > 40%). Biodegradation is expected to be achievable in a secondary wastewater treatment plant. 5-day biochemical oxygen demand (BOD₅) = 1.16 p/p. 20-day biochemical oxygen demand (BOD₂₀) = 1.45 p/p. Theoretical oxygen demand (ThOD) is calculated to be 1.68 p/p. Inhibitory concentration (IC₅₀) in OCED Activated Sludge Respiration Inhibition Test (OCED Test No. 209) > 1gm/L. Degradation is expected in the atmospheric environment within minutes to hours.

Ecotoxicity : Material is practically non-toxic to aquatic organisms on an acute basis (LC₅₀ > 100 mg/L in most sensitive species):

Acute LC₅₀ (fathead minnow) = 46500 - 54900 mg/L.

Acute LC₅₀ (guppy) = > 10000 mg/L

Acute LC₅₀ (water flea) = 4850 - 34400 mg/L

Acute LC₅₀ (rainbow trout) = 44 mg/L

Environmental Fate (as Protein Enzyme Concentrate): No data found.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Neutralize spent solutions to an acceptable pH level. Allow oils to separate and decant if possible. Detergent portion is 100% biodegradable.

Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? No

If yes, the RCRA ID number is : N/A

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855*

*Please refer to c# referenced in section 1 of this msds.

DOT Proper Shipping Name: Not Regulated (Compound, cleaning, liquid, NOIBN)

DOT Hazard Class / Product Identification Number / Packing Group / DOT Label:

NOIBN

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SECTION 15 : REGULATORY INFORMATION

OSHA CLASSIFICATION (USA): **Physical:** No data found for this product.
 Health: No data found for this product.
 Target Organ: No data found for this product.

SARA Regulations 313 and 40 CFR 372: This product does not contain any materials listed under 40 CFR 372.65a.

Other Regulations / Legislation which apply to this product: None known.

(as Propylene Glycol) : Pennsylvania Hazardous Substance

SECTION 16 : OTHER INFORMATION

NFPA Rating : **HEALTH:** 1 **FLAMMABILITY:** 0 **REACTIVITY:** 0
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Information and data compiled to compose this MSDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.