

MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

CHEMSPEC COMMERCIAL®

CHEMICAL SPECIALTIES MANUFACTURING CORPORATION • 901 N. NEWKIRK STREET •
BALTIMORE, MD 21205 • (410) 675-4800

NPCA Hazardous Identification System

Health 0
Flammability 3
Reactivity 0
Personal Protection B

Degree of hazard: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant
B = Safety Glasses + Gloves.

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: Solizym

DATE REVIEWED: 9/21/00 1:11:16 PM

DOC CODE: Solizym

CHEMICAL FAMILY: Mixture.

EMERGENCY 24-HOUR TELEPHONE # 1-800-424-9300 (CHEMTREC)

N/A = Not applicable or Not available.

N/D = Not determined.

SECTION II: COMPOSITION/INFORMATION ON INGREDIENTS

This product has not been tested as a whole for health effects on animals or humans. According to the OSHA Hazardous Communications Standard (29 CFR 1910.1200) any hazardous ingredients that comprise >1.0% of the material and any carcinogenic ingredients that comprise >0.1% must be listed on the MSDS. When individually tested at 100% ingredients in the make-up of this product posed the following health hazards.

SECTION II a: HAZARDOUS INGREDIENTS >1.0%

Chemical Name	CAS #	PEL	TLV
Isopropyl Alcohol	67-63-0	400 ppm	400 ppm
Dipropylene Glycol Monomethy Ether	34590-94-8	100 ppm	100 ppm
Liquefied Petroleum Gas	68476-85-7	1000 ppm	1000 ppm

SECTION III: HAZARDS IDENTIFICATION

EYES: May cause eye irritation.
SKIN: May cause skin irritation.
INHALATION: None expected if used as directed.
INGESTION: May cause abdominal discomfort, nausea and diarrhea.

SECTION IV: FIRST AID PROCEDURES

EYES: Flush with water for at least 15 minutes. If irritation persists consult physician.
INGESTION: Drink 1 to 2 glasses of water. Consult physician.
INHALED: Remove to fresh air. If symptoms persist or are severe seek prompt medical assistance.
SKIN: Remove contaminated clothing. Thoroughly wash exposed area with soap and water.
PHYSICIAN: Treatment based on judgment of attending physician.

SECTION V: FIRE AND EXPLOSION DATA

ASH POINT (of Concentrate Only): 37 degrees F (T.O.C.).

FLAMMABILITY (as per USA Flame Projection Test): Non-Flammable Spray.

EXTINGUISHING MEDIA: Foam, CO₂, and Dry Media.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

USUAL FIRE AND EXPLOSIVE HAZARDS: Exposure to temperature above 120 degrees F may cause bursting.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Wipe up spilled material with absorbent clay and dispose according to local, state and federal regulations.

SECTION VII: HANDLING AND STORAGE

No special precautions required.

SECTION VIII: PROTECTION MEASURES

VENTILATION: Local exhaust or dilution ventilation is necessary in poorly ventilated areas.

PROTECTIVE CLOTHING: Rubber gloves.

RESPIRATORY: Not usually required.

EYES: Safety glasses. Wear splash goggles when mists or aerosols are anticipated.

OTHER PROTECTIVE EQUIPMENT: Body-covering clothing should be worn.

SECTION IX: PHYSICAL/CHEMICAL DATA

Below Based on Aerosol Concentrate Only:

BOILING POINT: 198 degrees F

10.4 VAPOR DENSITY (Air=1): >1

SOLUBILITY IN WATER: Complete SPECIFIC GRAVITY (Water=1)@70 degrees F: 0.967

APPEARANCE/ODOR: Cloudy Liquid, Slight Alcohol Odor.

Below Based on Total Contents:

VAPOR PRESSURE OF CAN (psig @ 72 degrees F): 50

Vol VOC (Volatile Organic Compound) %: ~32%

SECTION X: REACTIVITY DATA

STABILITY: Stable.

HARSH POLYMERIZATION: Will not occur.

COMPATIBILITY: Strong Acids.

HARSH DECOMPOSITION/COMBUSTION PRODUCTS: Possibly oxides of carbon and other unidentified organic compounds.

SECTION XI: TOXICOLOGICAL INFORMATION OF INGREDIENTS

Not available.

Solizym

SECTION XII. ECOLOGICAL INFORMATION

Ready to use solution is biodegradable. No other information is available.

SECTION XIII. SPILL, LEAK AND DISPOSAL PROCEDURES

WASTE DISPOSAL: In accordance with Federal, state and local regulations.

NEUTRALIZING CHEMICALS: Vinegar.

SECTION XIV. TRANSPORT INFORMATION PER 49 CFR 172.101

GROUND TRANSPORTATION:

Flammable Liquid (Contains Isopropyl Alcohol), n.o.s., UN 1993, PG III.

AIR TRANSPORTATION:

Flammable Liquid (Contains Isopropyl Alcohol), n.o.s., UN 1993, PG III.

Quantity Limitations: 60L. Aircraft: Passenger.

Quantity Limitations: 220L. Aircraft: Cargo.

MARITIME TRANSPORTATION:

Flammable Liquid, (Contains petroleum distillate), n.o.s., Class 3, UN 1993, PG III.

IMDG PAGE #: 3126.

SECTION XV. REGULATORY INFORMATION

Domestic:

TSCA: All ingredients are listed on the TSCA chemical substance inventory.

SARA Section 313 Ingredients: None.

California Prop 65 Ingredients: None.

International:

European:

Symbol: Harmful, Flammable.

R-Sentences: R10, Toxic: R22, R45.

S-Sentences: S2, S7, S13, S16, S45, S53.

Canadian:

WHMIS Hazard Class: B2, D2B.

SECTION XVI. OTHER INFORMATION

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.