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MATERIAL SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Issued by: JEEN INTERNATIONAL CORPORATION
24 MADISON ROAD
FAIRFIELD, NJ 07004
Telephone No.: (973) 439-1401

Chemtrec Emergency Tel# 800-424-9300
Chemtrec Int'l Tel.# 703-527-3887 (Collect Calls Accepted)

Issue Date: October 21, 2004

Product & Synonym: **JEECHEM FS-102**
Chemical Name: Hexylene Glycol, PEG-25 Hydrogenated Castor Oil, PEG-40 Hydrogenated Castor Oil,
CAS Numbers: 107-41-5, 61788-85-0, 61788-85-0,
RTECS: SA0810000
TSCA: TSCA 8(b) inventory: Hexylene glycol
Cl#: Not Available

SECTION 2- COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS #	TWA (mg/m3)	STEL (mg/m3)	CEIL (mg/m3)	% by Weight
Hexyleneglycol	107-41-5	125			100
PEG-40 Hydrogenated Castor Oil	61788-85-0				
PEG-25 Hydrogenated Castor Oil	61788-85-0				

Toxicological Data on Ingredients: Hexyleneglycol:
Oral (LD50): Acute: 3700 mg/kg (rat)
Dermal (LD50): Acute: 8560 mg/kg (rabbit)

SECTION 3- HAZARDS IDENTIFICATION

Potential Acute Health Effects: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects: Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Carcinogenic Effects: Not available
Mutagenic Effects: Not available
Terratogenic Effects: Not available
Developmental Toxicity: Not available

The substance is toxic to kidneys, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 4- FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.



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SECTION 5- FIRE AND EXPLOSION DATA

Flammability of the Product:	May be combustible at high temperature.
Auto-Ignition Temperature:	Not available.
Flash Points:	Closed Cup: 93.33 deg. C (200 deg. F). Open Cup: 102 deg. C (215.6 deg. F).
Flammable Limits:	Not available
Products of Combustion:	These products are carbon oxides (CO, CO2)
Fire Hazards in Presence of Various Substances:	Not available.
Explosion Hazards in Presence of Various Substances:	Risks of explosion of the product in presence of mechanical impact: Not available Risks of explosion of the product in presence of static discharge: Not available
Fire Fighting Media and Instructions:	Small Fire: Use dry chemical powder Large Fire: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards:	Not available
Special Remarks on Explosion Hazards:	Not available

SECTION 6- ACCIDENTAL RELEASE MEASURES

Small Spill:	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

SECTION 7- HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

SECTION 8- EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection:	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of Large Spills:	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
Exposure Limits:	TWA: 25 (ppm) from ACGIH (TLV) TWA: 125 (mg/m3) from ACGIH



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SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance:	Liquid
Odor:	Sweetish
Taste:	Not available
Color:	Yellow Liquid
pH (%):	Not available
Boiling Point:	197 deg. C (386.6 deg.F)
Critical Temperature:	Not available
Specific Gravity:	0.9800 (water =1)
Vapor Pressure:	< 1 mm of Hg @ 20 deg. C
Vapor Density:	2 (air =1)
Volatility:	Not available
Water/Oil Dist. Coeff.:	Not available
Ionicity (in water):	Not available
Dispersion Properties:	See solubility in water, methanol, diethyl ether

SECTION 10- STABILITY AND REACTIVITY DATA

Stability:	The product is stable
Instability Temperature:	Not available
Conditions of Instability:	Not available
Incompatibility with various substances:	Not available
Corrosivity:	Non-corrosive in presence of glass
Special Remarks on Reactivity:	Not available
Special Remarks on Corrosivity:	Not available
Polymerization:	No

SECTION 11- TOXICOLOGICAL INFORMATION

Routes of Entry:	Eye contact. Inhalation. Ingestion
Toxicity to Animals:	Acute oral toxicity (LD50): 3700 mg/kg (rat) Acute dermal toxicity (LD50): 8560 mg/kg (rabbit)
Chronic Effects on Humans:	The substance is toxic to kidneys, the nervous system, mucous membranes.
Other Toxic Effects on Humans:	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation.
Special Remarks on Toxicity to Animals:	Not available
Special Remarks on Chronic Effects on Humans:	Not available
Special Remarks on other Toxic Effects on Humans:	Not available

SECTION 12- ECOLOGICAL INFORMATION

Ecotoxicity:	Not available
BOD5 and COD:	Not available
Products of Biodegradation:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:	The products of degradation are more toxic
Special Remarks on the Products of Biodegradation:	Not available



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SECTION 13- DISPOSAL CONSIDERATIONS

Waste Disposal

SECTION 14- TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States)
Identification: Not available: NA 1993 PG:III
Special Provisions for Transport: Not applicable

SECTION 15- OTHER REGULATORY INFORMATION

California Proposition 65 Warnings

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
WHMIS (Canada): Class D-2B: Material causing other toxic effects (Toxic)
DSCL (EEC): R36/38-Irritating to eyes and skin

HMIS (U.S.A): **Health Hazard (2)**
Fire Hazard (2)
Reactivity (0)
Personal Protection (h)

National Fire Protection Association (U.S.A)

Health (2)
Flammability (2)
Reactivity (0)

Protective Equipment: Gloves, Lab coat, Vapor respirator. Be sure to use an approved / certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

SECTION 16- OTHER INFORMATION

References: Not available
Other special considerations: Not available

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other material deteriorates, or becomes contaminated it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Jeen International assumes no responsibility for the completeness or accuracy of the information contained herein.