

MATERIAL SAFETY DATA SHEET

Required under OSHA'S Hazard Communication Standard 29CFR190-1200

EMERGENCY TELEPHONE NUMBER

CHEMTREC: (800) 424-9300/(202) 483-7616

"CHEMTREC" NUMBER SHOULD ONLY BE USED IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT INVOLVING CHEMICALS.

IDENTITY (As used on Label and list)
JOMO Freol SR30

Section I

Manufacturer's Name

JAPAN ENGROY CO., LTD.

Telephone Number for information

03-5573-6519 (Japan)

Address

Date Prepared

10-1, Toranonon 2-chone
Minatoku, Tokyo 105
Japan

1st December, 1993

IMPORTER: HITACHI AMERICA LTD, PID, FREMONT CALIFORNIA

Section II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity, Common Name)

No hazardous materials present
Triesters (ab. 100%)

OSHA PEL

ACGIH TLV

Section III - Physical Characteristics

Boiling Point	Not Applicable	Specific Gravity (H ₂ O=1)	1.021(15°C)
Vapor Pressure (mmHg)	Negligible	Melting Point (Pour point)	-27.5°C
Vapor Density (AIR=1)	Not Applicable	Evaporation Rate	Not Applicable (Butyl Acetate=1)
Solubility in water	Negligible		
Appearance and Odor	Colorless, clear mobile liquid		

Section IV - Fire and Explosion Hazard Data

Flash Point (method Used)	268°C (CDC)		
Flammable limits	No information	LEL	UEL

Extinguishing Media

Foam, dry chemical, carbon dioxide

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

Not in particular. Normal protective measures for organic chemical products with flash points of above 100°C.

Section V – Reactivity Data

Stability Stable
Incompatibility (Materials to Avoid) None
Hazardous Decomposition or Byproducts None
Hazardous Polymerization will not occur

Section VI – Health Hazard Data

Route(s) of Entry Inhalation, Skin, Ingestion
Health Hazards (Acute and Chronic) No Information is available
Carcinogenicity NTP IARC Monographs OSHA Regulated.
None None None
Signs and Symptoms of Exposure No information is available
Medical Conditions generally Aggravated by Exposure No information is available
Emergency and First Aid Procedures
Skin Contact: Wash material off the skin with copious amounts of water and soap.
Eyes Connect: Immediately flush with plenty of water for at least 15 minutes.
Inhalation: Remove exposed person to fresh air.
Ingestion: Do not induce vomiting. Call physician immediately.

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled.
Prevent spillage from spreading by using sand and absorb the liquid substance using a suitable inert material. Transfer to a suitably labeled, sealable container. Do not allow liquid to enter open waters or ground water.
Waste Disposal Method
Waste material may be incinerated under conditions which meet all Federal, State, and local environmental control regulations.
Precautions to be Taken in Handling and Storing
Store in cool, dark and low humidity place
Other Precautions
Not in particular

Section VIII – Control Measures

Respiratory Protection
Ventilation Local Exhaust Not Required
Mechanical (General) Not Required
Special Adequate ventilation should be maintained when handling heated products.
Protective Gloves Rubber Gloves
Eye Protection Glasses or Goggles
Other Protective Clothing or Equipment Not Required
Work/Hygienic Practices Not Required