MATERIAL SAFETY DATA SHEET

2 pages

IDENTITY: LOX-8 GREASE

MANUFACTURER: Fluoramics Inc.
ADDRESS: 18 Industrial Avenue
Mahwah, N.J. 07430
PHONE: 201-825-8110

DATE PREPARED: JANUARY 2002
PREPARED BY: F.G. Reick, President

CAS NUMBERS:

Chlorotrifluoroethylene: 9002 83 9
Polytetrafluoroethylene: 9002 84 0
Silicondioxide aerogel: 686 11 44 9
Pigment Cobalt Titanate Green Spinel: 68186 85 6

SECTION 1 - COMPONENTS

COMPONENTS	%	ACHIH - TLV
Pigments - Antimony Trioxide (asSb)	.01	
Catalyst - Nickel Compounds (asNi)	.01	
Teflon	49.99	
Halocarbon Oil	49.99	

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point: mixture
Vapor Pressure: less than 0.01
Vapor Density: N/A
Solubility in Water: N/A

Specific Gravity (H_2O=1): ca 2.0
Melting Point: N/A
Evaporation Rate (butyl acetate=1): less than 1
Water Reactive: N/A
Appearance and Odor: Green grease - odorless

SECTION 3 - FIRE & EXPLOSION HAZARD DATA

Flash Point & Method Used: N/A (non-burning)
Flammability Limits in Air % by Volume: N/A
Extinguisher Media: Its presence in a fire does not hinder the use of any standard medium

Special Fire Fighting Procedures: Wear self-contained breathing apparatus approved by IOASH
Toxic fumes given off above 932° F (500° C)
Unusual fire and Explosion Hazards: None

	NFPA CODES	HMIS CODES
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0
PERSONAL PROTECTION		B

SECTION 4 - REACTIVITY HAZARD DATA

Stability: Stable

Conditions to Avoid: Temperature above 250° without adequate ventilation
Incompatability (Materials to Avoid): Molten alkali metals, interhalogen compounds
Hazardous Decomposition Products: Sodium-potassium alloy, HF, Cl_2, hydrogen fluoride gas, perfluorocarabon olefins are evolved above 250° C. At 650°C (1202°), COF_2 is the principal toxic product. At above 650°C, major products are CF_4 and CO_2.
Hazardous Polymerization: Will not occur

SECTION 5 - HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation - Skin - Ingestion
Health Hazards: Treat symptomatically
Signs and Symptoms of Exposure: For material at ambient, we know of no hazards. For material in high temperature process, polymer fume fever may result from inhaling fumes.

Medical Conditions Generally Aggravated by Exposure: See below
Emergency First Aid Procedures:
Eye Contact: Wash with copious amounts of water.
Skin Contact: Remove by wiping and wash with soap and water
Inhalation: (Of fumes) Remove to fresh air, keep warm. If breathing is labored, use artificial respiration or oxygen and call a physician.
Ingestion: Call a physician.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type): If exposed to high temperature processing fumes, wear self-contained breathing apparatus.
Protective Gloves: Yes
Eye Protection: Goggles if contact is probable
Ventilation to be Used: Local exhaust preferred; mechanical (general) usually none
Other Protective Clothing and Equipment: As indicated
Hygienic Work Practices: Strictly enforce NO SMOKING rule for workers handling material. Use normal personal hygiene and good housekeeping.

SECTION 7
PRECAUTIONS FOR SAFE HANDLING AND USE
LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released: Use safe industrial solvents.
Waste Disposal Methods: Burning not recommended. Comply with local state and regional regulations.
Precautions to be Taken in Handling and Storage: Apply same practices as described above for work/hygienic practices.
Other Precautions and/or Special Hazards: Avoid frequent or prolonged skin contact or inhalation of fumes. Storage: Below 90° F.

MSDS Name: Sherlock Leak Detector Type CG

Date Prepared: 010207

Section 1: Manufacturer's Name

RMI RATERMANN MANUFACTURING, INC.
601 Pinnacle Place • Livermore, CA 94550
Tel: (925) 606-2949 • Fax: (925) 606-2945

Section 2: Hazardous Ingredients/Identity Information

Non-hazardous per 29 CFR part 1910 subpart Z

HMIS (0=minimal; 1=slight; 2=moderate; 3=serious; 4=severe)

Health: 1 Reactivity: 0

Flammability: 0

Section 3: Physical/Chemical Characteristics

Boiling Point: 212 F (100 C)
Vapor Pressure (mm Hg.): 17.54
Vapor Density (AIR=1): 1.1832
Solubility in Water: 100%
Specific Gravity (Water=1): 1.006
Melting Point: N/A
Evaporation Rate (Water=1): 1
Appearance and Odor: Blue, Clear, Citrus Fragrance

Section 4: Fire and Explosion Hazard Data

Flash Point: None (TCC)
Extinguishing Media: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: None

Section 5: Reactivity Data

Stable
Incompatibility: None
Hazardous Decomposition or Byproducts: None
Hazardous Polymerization: Will not occur

Section 6: Health Hazard Data

Routes of Entry: Ingestion
Health Hazards: N/A
Carcinogenicity: N/A
Symptoms of Exposure: N/A
Medical Conditions Aggravated by Exposure: None determined
Emergency and First Aid Procedures: Ingestion: Empty stomach and see physician
Eye and Skin Contact: Flush with water

Section 7: Precautions for Safe Handling and Use

Released or Spilled Material: Wipe with absorbent material placing rags in a disposable container, complete clean-up with water
Waste Disposal Method: Dispose of product in accordance to local, county, state, and federal regulations
Handling and Storing Precautions: Store in a dry place above 32F, cap tightly to prevent evaporation
Other Precautions: Do not ingest, spray in eyes, or contact with skin

Section 8: Control Measures

Respiratory Protection and Ventilation: None
Protective Wear: Gloves (non-absorbent), Eyes (goggles), Protective Apron
Work/Hygienic Practices: Observe all safe handling practices