

Section 1 - Manufacturer Information

Manufacturer/Distributor: IMS Company
10373 Stafford Road
Chagrin Falls, OH 44023-5296

Emergency Phone #: 800-424-9300
Prepared by: Safety Advisor
Prepared/Revised: September 29, 2000

Trade NameHigh Heat - Copper-Flake THREAD LUBE

Part Number.....103779	1 gallon	Replaces NZXX-CF1610
103780	16 ounces	Replaces NZXX-CF16
103783	16 ounces	Replaces NZXX-CFB16
107280	2 ounces	Replaces NZXX-CFB2

Hazardous Material Information System

Health1	Flammability1	Reactivity1	ProtectionX
* Chronic (Accumulates)			
0 Normal use Material	0 Will Not Burn	0 Stable	X = Consult the
1 Slight Hazard (temporary)	1 Possible to Burn	1 Unstable if Heated	MSDS and
2 Health Affected (lengthy)	2 Burns if Heated	2 Violent Chemical Change	your supervisor
3 Extreme Danger	3 Easily Burns	3 Shock and Heat Sensitive	for your special
4 Severe or Fatal	4 Very Easily Burns	4 May Explode workplace need	

NOTE: The HMIS may be not enough hazard information for this chemical in all workplaces. The HMIS system requires employee training about the system and about information in this MSDS.

Section 2 - Hazardous Ingredients

Chemical/Common Name	CAS-Number	%	PEL-OSHA	TLV-ACGIH
Petroleum grease/oil	mixture ⁽²⁾	45 to 65	5 mg/m ³ (mist)	5 mg/m ³ (mist)
Copper, as fume or dust ⁽³⁾	7440-50-8	10 to 30	1 mg/m ³	1 mg/m ³
Graphite	7782-42-5	10 to 30	2.5 mg/m ³	2.5 mg/m ³
Corrosion inhibitor (no nitrates)	⁽²⁾	0.1 to 10	⁽¹⁾	⁽¹⁾

⁽¹⁾ None Established.

⁽²⁾ The specific nature of these products has been withheld by the supplier as trade secret.

⁽³⁾ Subject to Sara Title III, Sec. 313 reporting.

This product does not contain carcinogens according to NTP, IARC, or OSHA.

Section 3 - Health Hazard Data

HEALTH EFFECTS - Acute and Chronic This product is not particularly toxic. As with any petroleum-based product, skin irritation can occur if prolonged or repeated skin contact occurs. Keep out of open wounds. Avoid breathing fumes of thermal decomposition.

Inhalation Dizziness, if exposed to decomposition fumes.

Ingestion May cause gastrointestinal discomfort.

Eyes Irritation if gotten in eyes.

Skin Irritation can occur from prolonged or repeated skin contact. Keep out of open wounds.

PRIMARY ROUTES OF ENTRY Skin contact, ingestion.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None known

EMERGENCY FIRST AID PROCEDURES

Eye Contact Flush eyes immediately with water for at least 15 minutes. May cause temporary eye irritation. If irritation continues, contact physician.

Skin Contact Do not apply directly to skin. Remove contaminated clothing and shoes. Wash exposed area with soap and water. Wash contaminated clothing before re-use. Apply skin lotion.

Inhalation Not likely under normal conditions of use. If using in high temperature applications where thermal decomposition is likely, use local exhaust to keep down fumes. If dizziness occurs, seek fresh air.

Ingestion If ingested, this product is not expected to cause an acute reaction. This product contains a petroleum oil. DO NOT INDUCE VOMITING because the oil may be aspirated into the lungs. However, if ingested, **** Get Medical Help At Once ****.

Section 4 - Chemical Data

Boiling Point	NE	Specific Gravity (Water = 1)	1.2
Vapor Pressure (mmHg)	NA	Percent Volatile by Volume (%)	Nil
Evaporation Rate (Ether = 1)	NA	Solubility in Water	Nil
Melting Point:	NE	Reactivity in Water	Nil

NE Not Established

NA Not Applicable

Appearance and Odor Information Copper-colored paste, grease odor.

Section 5 - Physical Hazard Data

Flash Point (COC)

Autoignition Temperature

Flammable Limits: LEL = NE UEL = NE

Extinguishing Media Foam, carbon dioxide, and dry chemical.

Special Fire Fighting Procedures This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers. However, frothing may occur if water is sprayed directly into a burning container.

Unusual Fire and Explosion Hazards Dense smoke may be generated; spilled contents may cause extremely slippery floors. Noxious or toxic fumes may be formed in a fire. Wear self-contained breathing apparatus.

Incompatibility (Materials to Avoid) Strong oxidizing agents, bromates, chlorates, iodates.

Hazardous Decomposition Products The thermal decomposition by-products are highly dependent

upon the combustion conditions. A complex mixture of airborne solids and fumes will be generated, some of which may be noxious or toxic gases

.Will Hazardous Polymerization Occur? No

Conditions to Avoid for Polymerization: NA

Is the Product Stable? Yes

Conditions to Avoid for Stability Open flame, incompatibles.

Section 6 - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Because of the viscous nature of this product, spills are unlikely. Scoop it back into the container.

Waste Disposal Methods Consult Federal, State or Local disposal authorities for approved procedures. Contains a petroleum oil, the preferred method of disposal is incineration. Do not discharge into sewers or waterways.

Section 7 - Exposure Control Information

Ventilation General ventilation, local exhaust, or mechanical or special ventilation to maintain product and its components below their exposure limits.

Respiratory Protection Generally not required if adequate ventilation is provided. If this product is being used in high temperature applications where the product "smokes", use a local exhaust, or ventilate the area to maintain the air quality or use a NIOSH approved organic vapor respirator.

Protective Gloves Normally not required. If prolonged or repeated skin contact is expected, wear solvent-resistant gloves such as Viton, Polyvinyl Alcohol or equivalent.

Other Protective Equipment As required by your company. If contact with the product is likely, eye protection is recommended. Goggles or safety glasses with side shields and face shield will provide protection in most situations.

Other Engineering Controls To determine exposure levels, monitoring should be performed. Eyewash station should be available

Work Practices Do not use in confined or closed space. Ventilation should maintain the concentration of the product and its components below their exposure limits.

Hygienic Practices Avoid contacts with skin and avoid breathing vapors. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restroom after using this or any chemical product.

Section 8 - Special Precautions

Precautions to be Taken in Handling and Storage Keep container closed. Store away from open flames, and strong oxidizers. Keep away from children.

Maintenance Precautions Do not remove or deface label.