

♦ MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 133K Anti-seize Lubricant
Item No.: 80078
Part No.: 133K
Product Type: Lubricant -M11 A907E

1287K31

NO: 1354

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Mineral oil	64742-52-5	40-50
COPPER*	7440-50-8	10-15
GAS OIL	64741-44-2	10-15
ALUMINUM	7429-90-5	5-10
Mineral oil, petroleum distillates	64742-53-6	0-10
Graphite	7782-42-5	1-3
Lithium soap	7620-77-1	1-3
SILICA, AMORPHOUS, precipitated	112926-00-8	1-3

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Mineral oil	5 mg/m3 mist	5 mg/m3 mist	5 mg/m3 mist
COPPER	1 mg/m3 dust	1 mg/m3 dust	None
GAS OIL	5mg/m3 TWA mist	5mg/m3 TWA mist	None
ALUMINUM	10 mg/m3 dust	15 mg/m3 dust	None
Mineral oil, petroleum distillates	5 mg/m3 mist	5 mg/m3 mist	None
Graphite	2.5 mg/m3 dust, respirable	2.5 mg/m3 dust, respirable	None
SILICA, AMORPHOUS, precipitated	10 mg/m3 TWA	6 mg/m3 TWA	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
Mineral oil	10 mg/m3 mist	None	
GAS OIL	10 mg/m3 mist	None	
Mineral oil, petroleum distillates	10 mg/m3 mist	None	

3. HAZARDS IDENTIFICATION

Toxicity: May irritate eyes or skin. Vapors or direct contact may irritate or burn nose and throat. Swallowing may irritate digestive tract and cause nervous system depression. Prolonged skin contact with copper may cause sensitization dermatitis. Copper dusts and mists are eye and mucous membrane irritants and skin sensitizers. Swallowing copper compounds may cause vomiting and collapse. Target organs include respiratory system, nasal septum, skin, eyes, gastrointestinal system, kidneys, liver, and cardiovascular system. Ingestion, inhalation, skin and eye contact.

Primary Routes of Entry: Ingestion, inhalation, skin and eye contact.

Signs and symptoms of Exposure: May cause skin or eye irritation with prolonged or repeated contact. Metal-fume fever, metallic taste, discoloration of skin or hair may indicate exposure to copper. Hemolysis, jaundice, anuria, hypotension, and convulsions may indicate acute copper poisoning.

Existing Conditions Aggravated by Exposure: Graphite powder: emphysema, asthma, and other respiratory problems.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA		
Mineral oil	IRR	NO	NO	NO
COPPER	BLO CNS GAS IMM IRR KID LIV MUT SEN SKI	NO	NO	NO
GAS OIL	No Data	NO	NO	NO
ALUMINUM	IRR LUN	NO	NO	NO

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80078

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3. HAZARDS IDENTIFICATION

(continued)

Mineral oil, petroleum
distillates
Graphite
Lithium soap
SILICA, AMORPHOUS,
precipitatedIRR
LUN
No Data
NUINO NO NO
NO NO NO
NO NO NO

Abbreviations

BLO Blood
GAS Gastrointestinal
IRR Irritant
LIV Liver
MUT Mutagen
SEN SensoryCNS Central nervous system
IMM Immune system
KID Kidney
LUN Lung
NUI Nuisance dust
SKI Skin

4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm.
Obtain medical attention.

Inhalation:

Oil mist: Remove to fresh air. If symptoms
persist, obtain medical attention.

Skin Contact:

Flush with water.

Eye Contact:

Flush at least 15 minutes with water. Obtain
medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:

None

Method: Tag Closed Cup

Recommended

Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Hazardous Products formed
by Fire or Thermal DecompMetal vapors, oxides of carbon, nitrogen, barium,
zinc, sulfur; hydrogen sulfide.

Unusual Fire or

Explosion Hazards:

None

Explosive Limits:

(% by volume in air) Lower

30% Aluminum metal

1% Gas oil

(% by volume in air) Upper

Unknown Aluminum metal

7% Gas oil

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak:Remove sources of ignition. Take up with an inert
absorbent. Store in a closed container until
disposal.

7. HANDLING AND STORAGE

Safe Storage:

Keep away from sources of ignition and hot
surfaces.(Contact Loctite Customer
Handling:Service 1-800-243-4874 for shelf Life information)
Keep away from eyes. Avoid prolonged skin contact.
Avoid prolonged breathing of vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Neoprene or oil resistant plastic gloves.

Ventilation:

Provide adequate local ventilation to maintain
vapor concentration below TLV if misting of oil
occurs or compound becomes dry.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Grey grease

Odor:

Petroleum

Boiling Point:

More than 500 °F

pH:

Does not apply

Solubility in Water:

Nil

Specific Gravity

1.06

Volatile Organic Compound
(EPA Method 24)

13.2%; 140 grams per liter

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)Vapor Pressure: Less than 5mm at 80°F
Vapor Density: Approximately 2.9
Evaporation Rate (Ether = 1) Not available10. STABILITY AND REACTIVITYStability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, alkalies, mineral acids, selected amines.
Hazardous Decomposition Products (non-thermal): Noxious carbon compounds, hydrogen.11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations. Do not incinerate pressurized cans.

14. TRANSPORT INFORMATIONDOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATIONEstimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 1
Specific Hazard: Does not applyEstimated HMIS(R) Code:
Health Hazard: 1
Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.Prepared By: Stephen Repetto
Title: Research Chemist, Environmental Health & Safety
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: January 22, 1996 Revision: 0032