Material Safety Data Sheet





Revision Number: 002.1 Issue date: 06/03/2010

1. PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 N-1000 High Purity Anti-Seize
 IDH number:
 234251

 Product type:
 Lubricant
 Item number:
 51115

Company address:Region:United StatesHenkel CorporationContact information:Telephone: 860.571.5100

One Henkel Way

Rocky Hill, Connecticut 06067

Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

 Physical state:
 Viscous, Liquid
 HEALTH:
 1

 Color:
 Copper
 FLAMMABILITY:
 1

 Odor:
 Mild, Petroleum
 PHYSICAL HAZARD:
 0

Personal Protection: See MSDS Section 8

CAUTION: MAY CAUSE EYE AND SKIN IRRITATION.

Relevant routes of exposure: Eyes, Skin

Potential Health Effects

Inhalation: Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste,

discoloration of skin or hair. May cause respiratory tract irritation. This product has low volatility

and is not expected to cause respiratory tract irritation during normal conditions of use.

Skin contact: Prolonged or repeated contact may cause irritation.

Eye contact: Contact with eyes will cause irritation.

Ingestion: Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis. Ingestion

may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR

1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
White minersal oil~		30 - 60
Graphite	7782-42-5	10 - 30
Copper	7440-50-8	10 - 30

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Wash with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

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Ingestion: Get medical attention. Do not induce vomiting. Aspiration may cause

pulmonary edema and pneumonitis.

5. FIRE FIGHTING MEASURES

Flash point: > 227 °C (> 440.6 °F) HST-US D09F; Flash/Fire Point By Cleveland Open

Cup

Autoignition temperature: Not determined

Flammable/Explosive limits - lower: Not determined

Flammable/Explosive limits - upper: Not determined

Extinguishing media: Carbon dioxide. Water spray or fog. Dry chemical. Foam.

Special firefighting procedures: None
Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow material to contaminate ground water system.

Clean-up methods: Scrape up as much material as possible. Clean residue with soap and water.

Follow all local, state, federal and provincial regulations for disposal.

7. HANDLING AND STORAGE

Handling: Keep container closed. Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

Storage: Keep in a cool, well ventilated area.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
White minersal oil~	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA	None	None
Copper	1 mg/m3 TWA (as Cu) Dust and mist. 0.2 mg/m3 TWA Fume.	1 mg/m3 TWA (as Cu) Dust and mist. 0.1 mg/m3 TWA (as Cu) Fume.	None	None

Engineering controls: Use only with adequate ventilation. Local exhaust ventilation is recommended

when general ventilation is not sufficient to control airborne contamination

below occupational exposure limits.

Respiratory protection:Use NIOSH approved respirator if there is potential to exceed exposure

limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

Eye/face protection: Safety glasses with side-shields. Goggles.

Skin protection: Cover as much of the exposed skin area as possible with appropriate clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Viscous, Liquid Color: Copper Odor: Mild, Petroleum Odor threshold: Not available pH: Not applicable Vapor pressure: Not available Boiling point/range: Not available Melting point/ range: Not available Specific gravity: 1.2331

Vapor density: Heavier than air.

Flash point: > 227 °C (> 440.6 °F) HST-US D09F; Flash/Fire Point By Cleveland Open

Cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Not determined

Not determined

Less than butyl acetate.

Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

Insoluble

Not determined

Essentially Zero

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Hydrocarbons. Oxides of carbon.

Incompatible materials: Oxidizing agents. Strong acids and strong bases.

Conditions to avoid: Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
White minersal oil~	No	No	No
Graphite	No	No	No
Copper	No	No	No

Hazardous components	Health Effects/Target Organs
White minersal oil~	Irritant
Graphite	Lung
Copper	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin

12. ECOLOGICAL INFORMATION

Ecological information: Not available

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Environmentally hazardous substances, liquid, n.o.s. (Copper)

Hazard class or division:

UN 3082 Identification number: Packing group: Ш Marine pollutant: Copper

International Air Transportation (ICAO/IATA)

Not regulated Proper shipping name:

Hazard class or division: None Identification number: None Packing group: None

Water Transportation (IMO/IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper) Proper shipping name:

Hazard class or division: UN 3082 Identification number: Packing group: Ш

Marine pollutant: Copper

REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312:

Immediate Health

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Copper (CAS# 7440-50-8).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet

Prepared by: C.J. Michaels, Manager, Regulatory Affairs

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