Material Safety Data Sheet

Henkel Technologies

Revision Date: 05/11/2007 **Issue date:** 05/11/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Zinc Anti-Seize
Product type: Lubricant
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 39901 / IDH No. 233507
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Zinc 7440-66-6	30-60	10 mg/m^3 (inhalation) 3 mg/m^3 (respirable)	15 mg/m^3 (total) 5 mg/m^3 (respirable)	None
Zinc oxide 1314-13-2	1-5	2 mg/m^3 TWA 10 mg/m^3 STEL	15 mg/m³ TWA total dust 5 mg/m³ TWA fume 5 mg/m³ TWA respirable fraction	None
Lead 7439-92-1	0.1-1	0.05 mg/m^3 TWA	30 µg/m^3 Action Level as Pb. Poison - see 29 CFR 1910.1025 50 µg/m^3 TWA as Pb 50 µg/m^3 PEL as Pb	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: Grey
Odor: Mild petroleum

HEALTH: 1
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED OR INHALED.

Relevant routes of exposure: Inhalation, Eyes

Potential Health Effects

Inhalation: Inhalation of vapors from heated material may cause irritation. Inhalation of high levels of zinc compounds may cause tightness of chest, metalllic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat.
Skin contact: Prolonged or repeated contact may cause irritation.
Eye contact: Can cause mechanical irritation if dusts are generated.
Ingestion: Not expected under normal conditions of use.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If discomfort persists seek medical attention.

Skin contact: Wash with soap and water. If hot material contacts the skin, immediately cool before attempting removal. Get medical attention if symptoms develop and persist. If high pressure forces the product under the skin get immediate medical attention.

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

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Aspiration may cause pulmonary edema and pneumonitis. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: 160°C (320°F) Cleveland open cup

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Water spray may be ineffective. Oil will float on water and can spread fire.

Unusual fire or explosion hazards: Closed containers may explode when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Acrid smoke and fumes.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains or open waters.

Clean-up methods: Scrape up as much material as possible. Clean residue with soap and water. Contaminated surfaces will be extremely slippery.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Keep container closed.

Storage: Keep in a cool, well ventilated area.

Incompatible products: Not available

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Not normally needed. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection: Not normally required. If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH. Observe OSHA regulations for respiratory use (29 CFR 1910.134).

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

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

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Grey
Odor: Mild petroleum
Vapor pressure: Not available
pH: Not applicable
Boiling point/range: 343°C (650°F)
Melting point/range: Not available
Specific gravity: 1.3056
Vapor density: Heavier than air
Evaporation rate: Less than butyl acetate.
Solubility in water: Negligible.
Partition coefficient (n-octanol/water): Not determined
VOC content: Essentially Zero

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon.

Incompatability: Oxidizing agents. Strong acids and strong bases.

Conditions to avoid: None known.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Zinc 7440-66-6	No	No	No
Zinc oxide 1314-13-2	No	No	No
Lead 7439-92-1	Suspect Carcinogen	Group 2A Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Zinc 7440-66-6	Blood, Central nervous system, Eyes, Immune system, Irritant, Kidney, Metabolic, Pancreas, Respiratory
Zinc oxide 1314-13-2	Skin, Respiratory, Pancreas, Metabolic, Kidney, Irritant, Immune system, Blood, Nervous System, Gastrointestinal
Lead 7439-92-1	Thyroid, Some evidence of carcinogenicity, Skin, Reproductive, Nervous System, Muscle, Liver, Kidney, Gastrointestinal, Eyes, Developmental, Blood, Behavioral

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA):

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

WaterTransportation (IMO/IMDG):

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None
Marine pollutant:	None

15. 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.

CERCLA/SARA Section 302 EHS: None.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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). Zinc (CAS# 7440-66-6). Zinc oxide (CAS# 1314-13-2)(Dust and fumes only). Lead (CAS# 7439-92-1).

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the 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: 2, 11, 15

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