



Revision Number: 002.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Zinc Anti-Seize	IDH number:	233507
Product type:	Lubricant	Item number:	39901
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	Emergency telephone: 860.571.5100		
Rocky Hill, Connecticut 06067	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Paste	HEALTH:	*1
Color:	Grey	FLAMMABILITY:	1
Odor:	Mild, Petroleum	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8

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

Relevant routes of exposure: Eyes, Lungs

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, metallic 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.

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	%
Petrolatum	8009-03-8	30 - 60
Zinc	7440-66-6	30 - 60
Butyl hydroxytoluene	128-37-0	0 - 0.1
Zinc oxide	1314-13-2	1 - 5
Silicon dioxide	7631-86-9	0.1 - 1
Calcium oxide	1305-78-8	0.1 - 1
Lead	7439-92-1	0.1 - 1

4. FIRST AID MEASURES

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

Skin contact:	If high pressure forces the product under the skin get immediate medical attention. Wash with soap and water. If symptoms develop and persist, get medical attention. If hot material contacts the skin, immediately cool before attempting removal.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Get medical attention. Never give anything by mouth to an unconscious person. Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis.

5. FIRE FIGHTING MEASURES

Flash point:	160 °C (320°F) HST-US D09F; Flash/Fire Point By 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. Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Water spray may be ineffective. Oil will float on water and can spread fire. 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. Closed containers may explode when exposed to extreme heat.
Hazardous combustion products:	Acrid smoke and fumes. Oxides of carbon. Acrid smoke and fumes. 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:	Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.
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:	Keep container closed. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. 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
Petrolatum	None	None	None	None
Zinc	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Butyl hydroxytoluene	2 mg/m3 TWA Inhalable fraction and vapor.	None	None	None
Zinc oxide	2 mg/m3 TWA Respirable fraction. 10 mg/m3 STEL Respirable fraction.	5 mg/m3 TWA Fume. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Silicon dioxide	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction.
Calcium oxide	2 mg/m3 TWA	5 mg/m3 TWA	None	None
Lead	0.05 mg/m3 TWA (as Pb)	29 CFR 1910.1025 0.05 mg/m3 TWA 0.03 mg/m3 OSHA ACT	None	None

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:

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

Eye/face protection:

Goggles. Safety glasses with side-shields.

Skin protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Grey
Odor:	Mild, Petroleum
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	Not available
Boiling point/range:	650 °F (343.3 °C) none
Melting point/ range:	Not available
Specific gravity:	1.3056
Vapor density:	Heavier than air.
Flash point:	160 °C (320°F) HST-US D09F; Flash/Fire Point By Cleveland Open Cup
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
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 reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon.
Incompatible materials:	Oxidizing agents. Strong acids and strong bases.
Conditions to avoid:	None known

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Petrolatum	No	No	No
Zinc	No	No	No
Butyl hydroxytoluene	No	No	No
Zinc oxide	No	No	No
Silicon dioxide	No	No	No
Calcium oxide	No	No	No
Lead	Anticipated carcinogen.	Group 2B	No

Hazardous components	Health Effects/Target Organs
Petrolatum	Irritant
Zinc	Blood, Central nervous system, Eyes, Immune system, Irritant, Kidney, Metabolic, Pancreas, Respiratory
Butyl hydroxytoluene	Irritant, Mutagen
Zinc oxide	Blood, Gastrointestinal, Immune system, Irritant, Kidney, Metabolic, Nervous System, Pancreas, Respiratory, Skin
Silicon dioxide	Nuisance dust
Calcium oxide	Irritant, Corrosive, Eyes
Lead	Behavioral, Blood, Developmental, Eyes, Gastrointestinal, Kidney, Liver, Muscle, Nervous System, Reproductive, Skin, Some evidence of carcinogenicity, Thyroid

12. ECOLOGICAL INFORMATION

Ecological information: Not available

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.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
DOT Reportable quantity: Zinc, Lead

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

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 above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed 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). Zinc (CAS# 7440-66-6). Zinc oxide (CAS# 1314-13-2). Lead (CAS# 7439-92-1).
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL 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 format.

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