

Material Safety Data Sheet



Revision Number: 001.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: NSWC100, 6 oz Semco
Product type: Thermal grease

IDH number: 1112951
Item number: NSWC100
Region: United States

Company address:
Henkel Corporation
15350 Barranca Parkway
Irvine, CA 92618

Contact information:
Telephone: 1.888.9.HENKEL (1.888.943.6535)
Emergency telephone: 860.571.5100
Internet: www.henkeln.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Paste
Color: White
Odor: Odorless

HMIS:

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

CAUTION: MAY CAUSE EYE AND SKIN IRRITATION.

Relevant routes of exposure: Eye contact, Skin contact

Potential Health Effects

Inhalation: Not expected under normal conditions of use.
Skin contact: Prolonged or repeated contact may cause irritation.
Eye contact: May cause irritation.
Ingestion: Not expected under normal conditions of use.

Existing conditions aggravated by exposure: Eye disorders. Skin 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	%
Zinc oxide	1314-13-2	60 - 100
Ethoxylated p-nonyl phenol	26027-38-3	5 - 10
Polyglycol	Proprietary	5 - 10
Substituted polyol	Proprietary	1 - 5
Polyoxyalkylene	Proprietary	1 - 5

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Wash clothing before reuse. Thoroughly clean shoes before reuse. 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.

Ingestion: Never give anything by mouth to an unconscious person. If symptoms develop and persist, get medical attention.

5. FIRE FIGHTING MEASURES

Flash point: 296 °C (564.8 °F) Cleveland open cup

Autoignition temperature: Not available

Flammable/Explosive limits - lower: Not available

Flammable/Explosive limits - upper: Not available

Extinguishing media: Carbon dioxide, foam, powder

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

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 product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing vapors or mists of this product. Keep container closed. Wash thoroughly after handling.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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
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
Ethoxylated p-nonyl phenol	None	None	None	None
Polyglycol	None	None	None	None
Substituted polyol	None	None	None	None
Polyoxyalkylene	None	None	None	None

Engineering controls:	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Eye/face protection:	Safety goggles or safety glasses with side shields.
Skin protection:	Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	White
Odor:	Odorless
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	< 0.1 mm hg
Boiling point/range:	> 149 °C (> 300.2 °F)
Melting point/ range:	Not available
Specific gravity:	2.7
Vapor density:	Not available
Flash point:	296 °C (564.8 °F) Cleveland open cup
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	< 0.01 (Butyl acetate = 1)
Solubility in water:	Partially soluble
Partition coefficient (n-octanol/water):	Not available
VOC content:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	None known
Incompatible materials:	Strong oxidizing agents.
Conditions to avoid:	Store away from incompatible materials. Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Zinc oxide	No	No	No
Ethoxylated p-nonyl phenol	No	No	No
Polyglycol	No	No	No
Substituted polyol	No	No	No
Polyoxyalkylene	No	No	No

Hazardous components	Health Effects/Target Organs
Zinc oxide	Blood, Gastrointestinal, Immune system, Irritant, Kidney, Metabolic, Nervous System, Pancreas, Respiratory, Skin
Ethoxylated p-nonyl phenol	Irritant, Skin
Polyglycol	No Target Organs
Substituted polyol	Irritant
Polyoxyalkylene	No Records

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

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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: Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide)
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. (Zinc oxide)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Zinc oxide

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

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 oxide (CAS# 1314-13-2).

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

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.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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