



Revision Number: 004.4

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: C-200 Solid Film Lubricant
Product type: Lubricant

IDH number: 233496
Item number: 39893
Region: United States

Company address:
 Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067

Contact information:
 Telephone: 860.571.5100
 MEDICAL EMERGENCY Phone: Poison Control Center
 1-877-671-4608 (toll free) or 1-303-592-1711
 TRANSPORT EMERGENCY Phone: CHEMTREC
 1-800-424-9300 (toll free) or 1-703-527-3887
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: solid
Color: black
Odor: Oily, Slight

HMIS:

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

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Mild respiratory tract irritation.
Skin contact: May cause irritation due to defatting of the skin.
Eye contact: May cause irritation.
Ingestion: Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels.

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	%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	30 - 60
Molybdenum disulphide	1317-33-5	10 - 30
Lead monoxide	1317-36-8	10 - 30
Graphite	7782-42-5	10 - 30
Residual oils (petroleum) solvent dewaxed	64742-62-7	5 - 10
Xylenes	1330-20-7	1 - 5
Tallow, calcium salt	68309-87-5	1 - 5
Ethylbenzene	100-41-4	1 - 5
Toluene	108-88-3	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Remove contaminated clothing and footwear. Wash with soap and water. If symptoms develop and persist, get medical attention. Wash clothing before reuse.
Eye contact:	Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.
Ingestion:	Get medical attention. Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis.

5. FIRE FIGHTING MEASURES

Flash point:	Not classified as a flammable solid per DOT Classification Guidelines Part 173 Appendix H 7/10/2002.
Autoignition temperature:	Not determined
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Dry chemical. foam Water spray or fog. Carbon dioxide.
Special firefighting procedures:	Use water spray to keep fire exposed containers cool and disperse vapors.
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:	Remove all sources of ignition. Contain spill. Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways. Ventilate area.
Clean-up methods:	Scrape up spilled material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling:	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 away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m3 TWA mist 10 mg/m3 STEL mist 5 mg/m3 TWA Inhalable fraction.	5 mg/m3 TWA mist 500 ppm (2,000 mg/m3) TWA 5 mg/m3 TWA Mist.	None	None
Molybdenum disulphide	10 mg/m3 TWA (as Mo) Inhalable fraction. 3 mg/m3 TWA (as Mo) Respirable fraction.	15 mg/m3 TWA (as Mo) Total dust.	None	None
Lead monoxide	0.05 mg/m3 TWA (as Pb)	29 CFR 1910.1025 0.05 mg/m3 TWA 0.03 mg/m3 OSHA ACT	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
Residual oils (petroleum) solvent dewaxed	5 mg/m3 TWA mist 10 mg/m3 STEL mist	5 mg/m3 TWA mist	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m3) TWA	None	None
Tallow, calcium salt	None	None	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m3) TWA	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	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:

Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	solid
Color:	black
Odor:	Oily, Slight
Odor threshold:	Not available.
pH:	Not available.
Vapor pressure:	Not available.
Boiling point/range:	Not available.
Melting point/ range:	>= 150 °F (>= 65.6 °C) LCT STM 22; Melting Point/Mixed Melting Point
Specific gravity:	1.4406
Vapor density:	Heavier than air.
Flash point:	Not classified as a flammable solid per DOT Classification Guidelines Part 173 Appendix H 7/10/2002.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not determined
Evaporation rate:	Slower than butyl acetate.
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not available.
VOC content:	6 %; 87 g/l (calculated)

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)
Distillates (petroleum), hydrotreated heavy naphthenic	No	No	No
Molybdenum disulphide	No	No	No
Lead monoxide	Anticipated carcinogen.	Group 2A	No
Graphite	No	No	No
Residual oils (petroleum) solvent dewaxed	No	No	No
Xylenes	No	No	No
Tallow, calcium salt	No	No	No
Ethylbenzene	No	Group 2B	No
Toluene	No	No	No

Hazardous components	Health Effects/Target Organs
Distillates (petroleum), hydrotreated heavy naphthenic	Irritant
Molybdenum disulphide	No Target Organs
Lead monoxide	Behavioral, Blood, Cardiac, Developmental, Eyes, Gastrointestinal, Irritant, Kidney, Liver, Muscle, Nervous System, Reproductive, Teeth, Thyroid, Vascular
Graphite	Lung
Residual oils (petroleum) solvent dewaxed	Irritant
Xylenes	Cardiac, Central nervous system, Irritant, Kidney, Liver
Tallow, calcium salt	No Records
Ethylbenzene	Irritant, Central nervous system
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant

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: Lead. D008.

14. TRANSPORT INFORMATION

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

Proper shipping name: Environmentally hazardous substances, solid, n.o.s.
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
DOT Reportable quantity: Xylene (mixed)

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lead monoxide)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead monoxide)
Hazard class or division: 9
Identification number: UN 3077
Packing group: III
Marine pollutant: Lead monoxide

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: Xylenes (CAS# 1330-20-7).
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). Lead monoxide (CAS# 1317-36-8). Xylenes (CAS# 1330-20-7). Ethylbenzene (CAS# 100-41-4).
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.B, D.2.A

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Corrected information in Section(s): 9

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