

# HAYNES LUBRICANTS

## SAFETY DATA SHEET

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### 1. COMPANY AND PRODUCT IDENTIFICATION

**Product identifier**

**Product Name:** HAYNES 500 - BLUE CAP  
**Product code:**

**Other means of identification**

**Synonyms** No information available.

**Application**

**Recommended Use** Lubricating Grease  
**Uses advised against** For industrial use only

**Supplier/Manufacturer:**

HAYNES MANUFACTURING COMPANY  
24142 DETROIT ROAD  
WESTLAKE, OH 44145  
Emergency Telephone Number:  
1-440-871-2188 Ext 195  
1-800-992-2166 Ext 195

### 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Chronic aquatic toxicity

Category 2

**Label Elements**

**Emergency Overview**

**Hazard Statements**

Toxic to aquatic life with long lasting effects



**Appearance** Opaque white

**Physical State** Grease

**Odor** Characteristic

**Precautionary Statements - Prevention**

Avoid release to the environment

Collect spillage

**Precautionary Statements - Disposal**

Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

Toxic to aquatic life.

**Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Zinc oxide	1314-13-2	5 - 10%
Adipic acid	124-04-9	1 - 5%

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**General advice:**

Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician.

**Eye contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin contact:**

Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

**Ingestion:**

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**Inhalation:**

Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Note to physician:** Treat symptomatically.  
**Medical condition aggravated by exposure:** Dermatitis.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or `alcohol` foam.  
**Specific hazards:** Do not allow material to contaminate ground water system.  
**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  
**Specific methods:** Water mist may be used to cool closed containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/ dust. Use personal protective equipment. Wash thoroughly after handling  
**Environmental precautions:** Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.  
**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

**Technical measures/precautions:** Provide sufficient air exchange and/ or exhaust in work rooms.  
**Safe handling advice:** In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

### Storage

**Technical measures/storage conditions:** Store at room temperature in the original container  
**Incompatible products:** Strong oxidizing agents  
**Safe storage temperature:** 5 - 35 ° C  
**Shelf life:** 2 years

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
White mineral oil	5 mg/ m <sup>3</sup>	5 mg/ m <sup>3</sup>	5 mg/ m <sup>3</sup> (TWA)
Thickening Agent	1 mg/ m <sup>3</sup> (TWA)	None	None
Zinc oxide	2 mg/ m <sup>3</sup> (TWA) 10 mg/ m <sup>3</sup> (STEL)	None	5 mg/ m <sup>3</sup> (TWA) 15 mg/ m <sup>3</sup> (Ceiling) 10 mg/ m <sup>3</sup> (STEL)
Calcium carbonate (limestone)	None	15 mg/ m <sup>3</sup>	10 mg/ m <sup>3</sup> (TWA) 5 mg/ m <sup>3</sup> (TWA)
Adipic acid	5 mg/ m <sup>3</sup> (TWA)	None	None

**Engineering measures:** Ensure adequate ventilation.

### Personal Protective Equipment:

**General:** Eye Wash and Safety Shower

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/ P100 filter should be worn.

**Eye protection:** Safety glasses with side-shields

**Hand protection:** Recommended: neoprene, latex, nitrile, butyl rubber and polyethylene type

**Skin and body protection:** Long sleeved clothing

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Grease
<b>Appearance</b>	Opaque white
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No information available.
<b>pH concentrate:</b>	NA
<b>pH Dilution</b>	No information available
<b>Melting/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	215.5 °C / 420 °F

Method	Cleveland Open Cup (COO)
Evaporation rate	No information available
Flammability Limits in Air upper flammability limit lower flammability limit	No information available. No information available.
VOC Content	No information available
Vapor pressure	No information available.
Vapor density	No information available.
Specific Gravity (g/cc, 15 C)	0.89
Bulk Density (lb/gal, 15 C)	7.42
Water Solubility	Insoluble
Solubility in other solvents	No information available.
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	68 mm <sup>2</sup> /s @40 C
Dynamic viscosity	No information available
Molecular Weight	No information available

## 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	None known.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides. Sulphur oxides. Smoke.
Hazardous Polymerization:	Not applicable.

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

### Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.

**Skin Contact** Prolonged contact may cause redness and irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc oxide	5000 mg/ kg ( Rat )	-	-
Adipic acid	-	-	7.7 mg/ L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Zinc oxide	Not listed	Not listed	Not listed
Adipic acid	Not listed	Not listed	Not listed

**Sensitization** No information available.

**Mutagenic effects:** No information available.

**Reproductive Toxicity** No information available.

**Developmental Toxicity** No information available.

**Teratogenic** No information available.

**Specific target organ systemic toxicity (single exposure)** No information available.

**Specific target organ systemic toxicity (repeated exposure)** No information available.

**Aspiration hazard** No information available.

**Additional information on toxicological effects**

**MINERAL OIL INFORMATION:** Any product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered hazardous. OSHA has established a PEL of 5 mg/m<sup>3</sup> for worker exposure to air borne mists of mineral oils. Therefore, the presence of mineral oils brings this product within the provisions of the OSHA Hazard Communication Standard where the PEL reaches or exceeds 5 mg/m<sup>3</sup>. Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

**12. ECOLOGICAL INFORMATION**

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Zinc oxide	No data	No data	No data

Adipic acid	97	=85.7mg/L 26.6 31.3	EC50 (Daphnia magna - 48h) = 85.7 mg/L
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0.2% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Components	Octanol/water partition coefficient
Zinc oxide	-
Adipic acid	-

**Mobility:** No data available

**Ozone:** No data available

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** Do not re-use empty containers

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

### 14. TRANSPORT INFORMATION

**U. S. DEPARTMENT OF TRANSPORTATION:**

Proper shipping name: Not Regulated

**TDG (CANADA):**

UN nr: UN3077  
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (contains Zinc Oxide)  
 TDG Hazard Classification: 9  
 Packing group: III

**IMDG/IMO:**

UN nr: UN3077  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Zinc Oxide)  
 Class: 9  
 Packing group: III  
 EMS: F-A, S-F  
 Marine pollutant: Marine Pollutant

**IATA/ICAO:**

UN nr: UN3077  
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (contains Zinc Oxide)  
 Hazard Class: 9  
 Packing group: III  
 Marine pollutant: Marine Pollutant

**15. REGULATORY INFORMATION**

**Federal Regulations**

**OSHA Hazard Communication Standard:** This product is considered to be hazardous under the OSHA Hazard Communication Standard.

**CERCLA/SARA Information:**

**SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): No  
 Delayed Health (Chronic): No  
 Flammability: No  
 Pressure: No  
 Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Zinc oxide	Not listed	Not listed	1.0 %
Adipic acid	5000 lb	Not listed	Not listed

**CERCLA/SARA 313 Emission reporting:** 6 % Zinc compounds (EPA ID E649699)

**Clean Air and Clean Water Acts:**

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Zinc oxide	Not listed	Not listed	Listed	Not listed
Adipic acid	Not listed	Listed	Not listed	Not listed

**U.S. STATE REGULATIONS (RTK):**

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Zinc oxide	Not Listed	Environmental hazard	100 lb	2037	Present
Adipic acid	Not Listed	Environmental hazard	Not Listed	0026	Present

**California Proposition 65 Status:** No components are listed

**RCRA Status:** Not regulated

**CANADIAN REGULATIONS:**



**Canada - WHMIS Classification Information:** This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**Canadian Product Classification:** None Required

**Product Classification Graphic(s):**

**Component Classification Data:**

Components	WHMIS hazard class	CEPA Schedule I	Challenge Substances
Zinc oxide	Uncontrolled product according to WHMIS classification criteria	Not listed	Not listed
Adipic acid	None	Listed	Not listed

**INVENTORY STATUS:**

**United States TSCA - Sect. 8(b) Inventory:** This product complies with TSCA

**Canada DSL/NDSL Inventory List** This product complies with DSL

## 16. OTHER INFORMATION

Sources of key data used to compile Material safety data sheets of the ingredients. the data sheet:

**Prepared by:** Safety, Health and Environmental Department

**Revision Date:** 06/03/2015

**Reason for revision:** New Format.

**Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.**

We believe the statements, technical information, and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, of expense, direct or consequential, arising out of their use.

**End of Safety Data Sheet**