

Material Safety Data Sheet

Page 1 of 8

HAYNES 500

Haynes Manufacturing Company

SECTION 1 – COMPANY AND PRODUCT IDENTIFICATION

Haynes Manufacturing Co.
24142 Detroit Rd.
Westlake, Ohio 44145, USA

Emergency Phone (440) 871-2188
Revision Date: **09/28/12**
Contact: Beth Kloos

PRODUCT NAME: **:HAYNES 500**
CHEMICAL NAME: **:PETROLEUM HYDROCARBON PLUS ADDITIVES**
CHEMICAL FAMILY: **:NOT APPLICABLE**
FORMULA: **:NOT APPLICABLE**
PRODUCT CODE: **:NOT APPLICABLE**

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %	OSHA Ceiling Limits	OSHA TWA (final)	ACGIH Ceiling Limits	ACGIH Exposure Limits	Vendor Exposure Limits
White Mineral Oil	8042-47-5	70-80%		5 mg/m ³		5 mg/m ³	

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview

This product may cause irritation of the eyes, skin, mucous membranes and respiratory tract.
May be harmful if swallowed.

Signal word: CAUTION

Principle routes of exposure: Eyes, skin and inhalation

Eye contact: Contact with eyes may cause irritation

Skin contact: Repeated or prolonged contact with base product may cause irritation leading to various skin disorders such as dermatitis, oil acne, or folliculitis.

Inhalation: Inhalation of vapor (generated at high temperatures only) or oil mist from this product may cause mild irritation of the upper respiratory tract.

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

Physico-chemical properties: No hazards resulting from material as supplied.

SECTION 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.

Material Safety Data Sheet

Page 2 of 8

HAYNES 500

Haynes Manufacturing Company

Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin contact:	Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off immediately with plenty of water for at least 15 minutes.
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 if necessary.
Note to physician:	Treat symptomatically.
Medical condition aggravated by exposure:	Dermatitis

SECTION 5 - PHYSICAL HAZARD DATA

Flash Point (°C): 215.5

Flash Point (°F): 420

Flash Point Method: COC

Flammable limits in air - lower (%): Not determined

Flammable limits in air - upper (%): Not determined

Suitable extinguishing media:	Use dry chemical, CO2, water spray or 'alcohol' foam.
Specific hazards:	Do not allow material to contaminate ground water system.
Unusual hazards:	None known
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.

SECTION 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.

Material Safety Data Sheet

Page 3 of 8

HAYNES 500

Haynes Manufacturing Company

SECTION 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

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	OSHA Ceiling Limits	OSHA TWA (final)	ACGIH Ceiling Limits	ACGIH Exposure Limits	NIOSH – Pocket Guide	Vendor Exposure Limits
White mineral oil	None	5 mg/m ³	None	5 mg/m ³	5 mg/m ³ (TWA)	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.

HAYNES 500

Haynes Manufacturing Company

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Semi-solid
Color:	Opaque White
Odor:	Characteristic
Vapour density:	Not determined
Vapor pressure (kPa):	Not determined
Viscosity:	68 mm ² /s @ 40 C
Solubility in water:	Insoluble
Evaporation rate:	Not determined
pH:	NA
Flash Point (°C):	215.5
Flash Point (°F):	420
Decomposition temperature (°C):	Not determined
Auto-ignition temperature (°C):	Not determined
Density @ 15.5 °C (g/cc):	0.89
Bulk density @ 60 °F (lb/gal):	7.42
Partition coefficient (n-octanol/water):	Not determined
Explosive Limits:	
- upper limit:	No data available
- lower limit:	No data available

SECTION 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, Sulhur oxides, Smoke.

Hazardous Polymerization:

Not applicable

SECTION 11 – TOXICOLOGICAL INFORMATION

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/m³ worker exposure to air borne mists of mineral oils. Therefore, the presence of mineral oils brings this product within

Material Safety Data Sheet

Page 5 of 8

HAYNES 500

Haynes Manufacturing Company

the provisions of the OSHA Hazard Communication Standard where the PEL reaches or exceeds 5 mg/m³. 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.

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

Components	IARC Carcinogens	NTP:	OSHA – Select Carcinogens	Acute Toxicity
White mineral oil	Not listed as carcinogenic or possibly carcinogenic to humans	Not listed as known or reasonably anticipated to be a human carcinogen	Not listed as a select carcinogen	Rat Oral LD50 > 5000 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

Persistence and degradability: No information available

Mobility: No data available

Bioaccumulation: Not available

Ecotoxicity effects: No data available

Aquatic toxicity: Not determined

Component Information

Components	Ecotoxicity – Fish Species Data:	Ecotoxicity – Freshwater Algae Data:	Ecotoxicity – Water Flea Data:
White mineral oil	10010	No data	No data

SECTION 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.

Material Safety Data Sheet

Page 6 of 8

HAYNES 500

Haynes Manufacturing Company

SECTION 14 – TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not Regulated

TDG (CANADA):

Proper shipping name: Not Regulated

IMDG/IMO:

Proper shipping name: Not Regulated

IATA/ICAO:

Proper shipping name: Not Regulated

SECTION 15 – REGULATORY INFORMATION

CANADIAN REGULATIONS:

Canada – WHMIS Classification Information:

This product has been classified according to the hazard criteria of the CPR and the MSDS 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
White mineral oil	Uncontrolled product according to WHMIS classification criteria	Not listed	Not listed

U.S. 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

Material Safety Data Sheet

HAYNES 500

Haynes Manufacturing Company

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

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
White mineral oil	Not listed	Not listed	Not listed

CERCLA/SARA 313 Emission reporting: 6 % Zinc compounds (EPA ID E 649699)

Clean Air and Clean Water Acts:

Components	Hazardous Air Pollutants	CWA – Hazardous Substances	CWA – Toxic Pollutants	CWA – Priority Pollutants
White mineral oil	Not listed	Not listed	Not listed	Not listed

RCRA Status: Not regulated

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
White mineral oil	Not listed	Present	Not Listed	1437	Present

California Proposition 65 Status: No components are listed

INVENTORY STATUS:

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

Canada DSL/NDSL Inventory List All components except one are on the DSL Inventory List. The remaining ingredient is listed on the NDSL Inventory List.

SECTION 16 – OTHER INFORMATION

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

HMIS classification: Health: 1 Flammability: 1 Reactivity: 0 Personal Protection:	HMIS Use Dilution Health -- Flammability -- Reactivity -- Personal Protection	NFPA rating: Health: 1 Flammability: 1 Reactivity: 0 Personal Protection:
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Material Safety Data Sheet

Page 8 of 8

HAYNES 500

Haynes Manufacturing Company

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NA

*** Indicates possible chronic health effect**

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

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End of Safety Data Sheet