



SAFETY DATA SHEET

Issuing Date: 28-Apr-2015

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Code: 103

Product Name

MB405, MB405H, MB4055, MB4055H, MB40330, MB40330H

Other means of identification

None

Recommended use of the chemical and restrictions on use

Recommended Use

Process fluid for honing machines. For industrial use only

Uses advised against

Do not use for grinding process

Suppliers Details

Supplier Address

Sunnen Products Company

7910 Manchester Rd.

Saint Louis, MO 63143

Website

www.sunnen.com

Email

SDS@Sunnen.com

Manufacturer Contact

Engineered Lubricants Co.

11525 Rock Island Ct.

Maryland Heights, MO 63043

Emergency telephone number

CHEMTREC (800) 424-9300

24 hrs./Day 7 days/ week CCN 7766 (US&CA)

2. HAZARDS IDENTIFICATION

Classification

Not Classified according to 2012 OSHA HAZ COM Standard; 29 CFR Part 1910.1200

GHS Label elements, including precautionary statements

None

Emergency Overview

Precautionary Statements

Prevention

None

General Advice

None

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Prolonged skin contact may defat the skin and produce dermatitis Prolonged or repeated skin contact can cause skin irritation or oil acne: Inflammation and blackheads due to mechanical blockage of the pores.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	15-40	*

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

INHALATION: Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance, and call a physician. If breathing has stopped, begin mouth to mouth resuscitation.

EYE CONTACT: Remove contact lenses (if wearing) and flush eyes with water for 15 minutes. Seek medical attention to check for possible irritation.

SKIN CONTACT: Wash contact areas with mild non-abrasive soap and water.

INGESTION: Do not induce vomiting. Call physician or poison control center immediately.

Most Important Symptoms/Effects Acne, blackheads

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media water spray

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Although not classified as "combustible" (based on flash point and ignition properties) this product can be made to burn and will serve as a fuel source for a fire. Sealed containers may melt, leak, burst or explode, releasing contents and spreading fire, if exposed to extreme heat. Towels, rags or other insulating absorbent fibrous media contaminated with honing oil should be stored in appropriate fireproof container that is emptied daily to avoid spontaneous combustion hazard. Remove traces of product if soldering, welding, brazing, cutting or other process involving ignition sources to prevent a fire hazard.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Wear appropriate protective clothing. Wash thoroughly after handling.

Environmental Precautions

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment

Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up

Dam up. Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Towels, rags or other insulating absorbent fibrous media contaminated with honing oil should be stored in appropriate fireproof container that is emptied daily to avoid spontaneous combustion hazard.

7. HANDLING AND STORAGE

Precautions for safe handling**Handling**

Wear personal protective equipment. Use only in ventilated areas. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Avoid wearing clothing soaked with fluid. Remove and wash contaminated clothing before re-use.

Use according to package label instructions. Use only in Honing Machines. Mix only with other Sunnen Honing oils. Clean oil covered parts with alkaline cleaner. Contact with water or alkaline material can lead to formation of non-hazardous soaps which can clog the honing machines oil filter. If spilled, take caution, as material can cause surfaces to become very slippery.

Conditions for safe storage, including any incompatibilities**Storage**

Keep container tightly closed. Store locked up.

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

Using proper engineering controls (local ventilation) normal honing operations should not generate mists at the operator's breathing zone. This product is considered a metalworking fluid (MWFs). Currently two OSHA air contaminant permissible exposure limits apply to MWFs. They are 5 mg/m³ for an 8 hr. time weighted average (TWA) for mineral oil mist and 15 mg/m³ (8hr. TWA) for Particulates Not Otherwise Classified (PNOC) [applicable to all other metalworking fluids].

The American Conference of Governmental Industrial Hygienists (ACGIH) threshold limit value (TLV) for mineral oil is 5 mg/m³ for an 8 hr. TWA and 10 mg/m³ for a 15 minute short term exposure limit (STEL).

In 1998, The National Institute for Occupational Safety and Health (NIOSH) published a criteria document which recommended an exposure level (REL) for MWF aerosols of 0.4 mg/m³ for thoracic particulate mass as a TWA concentration for 10 hours per day during a 40 hr. work week. Because of the limited availability of thoracic samplers, measurement of total particulate mass is an acceptable substitute. The thoracic particulate value corresponds to 0.5 mg/m³ for total particulate mass.

In 1999, the OSHA Metalworking Fluids Standards Advisory Committee recommended a new 8 hr. TWA PEL of 0.4 mg/m³ thoracic particulate (0.5 mg/m³ total particulate).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated light. CAS 64742-53-6	5 mg/m ³ (as oil mist) 2 mg/m ³ (inhalable)	5 mg/m ³ (as oil mist)	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls**Engineering Measures**

Showers

Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.
Skin and Body Protection	Skin protection is not normally required for short exposures when honing with oil. Oil impervious gloves should be worn. Nitrile gloves are recommended.
	Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Note some barrier creams have been shown to increase skin absorption of metallic compounds.
Respiratory Protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Provide regular cleaning of equipment, work area and clothing. Wash hands thoroughly to remove honing oil and microscopic particles of metal debris. Do not consume or store food in the work area. Remove and wash contaminated clothing before re-use. Avoid contact with open cuts or sores.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid
Odor: Oily
Appearance: Black
Odor Threshold: Unknown

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	Closed cup: 129°C (264°F)	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	Flammability Limits in Air	
No data available	None known	
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	0.94 Typical	None known
Water Solubility	None	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	35 cSt @ 40C Typical	
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
<u>Other information</u>		
VOC Content (%)	No data available	
VOC (g/l)	192 Gm/L ASTME1868-10	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces, and sources of ignition. Avoid accumulation of contaminated towels, rags or other insulating absorbent fibrous media.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No acute toxicity information is available for this product.
Inhalation	None under normal use conditions
Eye Contact	Oil mists containing small metal filings may cause mechanical irritation.
Skin Contact	Non-irritating during normal use. Prolonged or repeated skin contact can cause skin irritation or oil acne: Inflammation and blackheads due to mechanical blockage of the pores.
Ingestion	None under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Acne, blackheads
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Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	The classification listed below for the petroleum distillates in this product pertains To those that contain more than 3% DMSO extract as measured by IP-346. The Petroleum distillates in this product do not meet that criterion to be classified as Carcinogens.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, hydrotreated light naphthenic	A2	Group 1		X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.

Numerical measures of toxicity - Product

Acute Toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)

Persistence and Degradability No information available.

Bioaccumulation No information available.

Chemical Name	Log Pow
Petroleum distillates, hydrotreated light naphthenic	> 3.5

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Since emptied containers retain material residue, follow label warnings even after container is emptied. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Thoroughly drain containers and offer for recycling. Do not attempt to clean container as residue is difficult to remove. Empty drums should be completely drained, properly closed and returned to a drum conditioner to be commercially cleaned. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No

Reactive Hazard

No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Petroleum distillates, hydrotreated light naphthenic		X			

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

16. OTHER INFORMATION

NFPA

Health Hazard 0 Flammability 1 Instability 0 Physical and Chemical Hazards 0

HMIS

Health Hazard 0 Flammability 1 Physical Hazard 0 Personal Protection X

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NOTICE

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End of Safety Data Sheet