



SAFETY DATA SHEET

Issuing Date 17-Mar-2015

Revision Date 17-Mar-2015

Revision Number 0

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

GHS product identifier

Product Name COS155/ COS155H/ COS1555/ COS1555H/ MAN8455/ MAN8455H/ MAN84555/ MAN84555H/ MAN845330/ MAN845330H/ CK5055/ CK5055H/ CK50330/ CK50330H/ LP8X5/ LP8X5H/ LP8X55/ LP8X55H/ LP8X330/ LP8X330H/ SF5/ SF5H/ SF55/ SF55H/ SF330/ SF330H Honing Oil

Other means of identification

Product Code(s) Product Identifier SDS081

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Process fluid for honing machines

Uses advised against No information available

Supplier's details

Supplier Address
Sunnen Products
7910 Manchester
Saint Louis, MO 63143
314-781-2100
Website: www.sunnen.com

Emergency telephone number

Emergency Telephone Number 1 (314) 781-2100 8 a. m . - 3 p.m. C.S.T (US)
Email: SDS@sunnen.com

2. HAZARDS IDENTIFICATION

Classification

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

Aspiration Toxicity	Category 1
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GHS Label elements, including precautionary statements

Emergency Overview

Signal Word	Danger
Hazard Statements	
• May be fatal if swallowed and enters airways	



Appearance Brown

Physical State Liquid.

Odor Mineral Oil

Precautionary Statements

Prevention

- None

General Advice

- None

Ingestion

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

Storage

- Store locked up.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

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.
10% 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	20-95	*
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	0-75	*

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.
Skin Contact	Wash skin with soap and water. Get medical attention if irritation persists. Remove and wash contaminated clothing before re-use.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. Call a POISON CENTER or doctor/physician if exposed or you feel unwell
Ingestion	Call a physician or Poison Control Center immediately. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Acne, blackheads.

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

Notes to Physician Aspiration hazard.

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 Use only in ventilated areas. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash thoroughly after handling. 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.

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 naphthenic 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 Ensure that eyewash stations and safety showers are close to the workstation location. Local ventilation is required. Do not operate honing machine in an unventilated area. Use local ventilation if strong odors or oil mist is detected.

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 . Wash hands before eating, drinking or smoking. 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	Appearance	Brown
Odor	Mineral Oil	Odor Threshold	No information available

<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	> 213 °C	None known
Flash Point	> 117 °C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
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	0.85-0.91	None known
Water Solubility	NILL	None known
Solubility in other solvents	Nearly complete	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	4-14 cSt @ 40C	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

Other information

VOC Content (%)	>369 gm/L ASTM 1868-10
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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	May be fatal if swallowed and enters airways.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Chlorine additive	= 26100 mg/kg (Rat)	> 10 mL/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Acne, blackheads.

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 criteria to be classified as carcinogens.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, hydrotreated light naphthenic	A2	Group 1		X
Petroleum distillates, hydrotreated heavy 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.
Aspiration Hazard May be fatal if swallowed and enters airways

Numerical measures of toxicity - Product

Acute Toxicity 10% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral 156600 mg/kg; Acute toxicity estimate

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)
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Chlorine additive		LC50 96 h: > 300 mg/L static (Lepomis macrochirus) LC50 96 h: > 0.0109 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: 94.5 - 271 mg/L static (Oncorhynchus mykiss) LC50 96 h: > 0.1 mg/L flow-through (Lepomis macrochirus) LC50 96 h: > 100 mg/L static (Pimephales promelas)		EC50 24 h: = 102 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

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - 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	Yes
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			

Petroleum distillates, hydrotreated heavy naphthenic				X	
Chlorine additive		X		X	

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X

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Issuing Date 17-Mar-2015
Revision Date 17-Mar-2015
Revision Note Initial Release.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet