



SAFETY DATA SHEET

Issue Date 11-26-2019

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Version 5

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

Product identifier

Product Name: MULTI-CLEAN™ MAX

Other means of identification

Common Name: 0124
UN/ID No NA1993 (Domestic)
Synonyms None
Product Categories Petroleum, Cleaner

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable
Recommended Use Restricted to professional users.
Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address
MOC PRODUCTS CO., INC.
12306 Montague Street
Pacoima, CA 91331

Emergency telephone number

Company Phone Number MOC PRODUCTS CO., INC. (818) 794-3500
Emergency Telephone CHEMTREC 1-800-424-9300


2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

Emergency Overview

Danger		
Hazard statements Harmful if inhaled May cause an allergic skin reaction May be fatal if swallowed and enters airways Combustible liquid		
		
Appearance Petroleum Based Solution	Physical state Liquid	Odor Slight Pine

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Contaminated work clothing should not be allowed out of the workplace
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CONTROL CENTER or doctor/physician if you feel unwell
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician
 Do not induce vomiting
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- Toxic to aquatic life with long lasting effects
- 1.5 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Hydrotreated Heavy Paraffinic Oil	64742-54-7	35-55	*
Hydrotreated Light Petroleum Distillates	64742-47-8	30-45	*
Mineral Oil	64742-54-7	5-15	*
Dipropylene Glycol Methyl Ether	34590-94-8	4-8	*
Terpene Alcohols	8002-09-03	1-3	*

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

4. FIRST AID MEASURES

First aid measures

Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Inhalation	If inhaled. Keep at rest position comfortable for breathing. Call a POISON CONTROL CENTER or doctor/physician if you feel unwell. Remove to fresh air.
Eye contact	Immediately flush eyes for at least 15 minutes. Get medical attention.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Notes to Physician	Aspiration hazard if swallowed - can enter lungs and cause damage. Symptoms may be delayed.

Most important symptoms and effects, both acute and delayed

Symptoms	Skin irritation: May cause allergic skin reaction. Coughing and/ or wheezing; Drowsiness, Dizziness, Headache, Nausea, Vomiting, Eye irritation.
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Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider	Avoid breathing vapors or mists. Avoid contact with skin. Wear appropriate gloves. Remove and wash contaminated clothing.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO2.

Small Fire Dry chemical or CO2.

Large Fire Water spray or fog; Foam.

Explosive properties: Risk of explosion if heated under confinement. May form explosive peroxides. May form explosive mixtures in presence of oxidizing substances (gas/dust).

Specific hazards arising from the chemical

Vapors may travel to areas away from work site before igniting/flashing back to vapor source. May be ignited by heat, sparks or flames. May cause sensitization by skin contact.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Aldehydes, Ketones, Organic acids, Fumes.

Specific methods:**Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.**Special firefighting procedures:**

Combustible liquid. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not use water jet. The product is insoluble and floats on water. Water jet may cause splattering. Water may cause frothing of heated materials. Avoid spreading burning liquid with water used for cooling purposes. Move containers from fire area if you can do it without risk. Dike to collect large liquid spills. Do not allow run-off from fire-fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Ensure adequate ventilation. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment.

For emergency responders Use personal protection recommended in Section 8. Use personal protective equipment as required. Remove all sources of ignition. Pay attention to flashback. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

Environmental precautions

Environmental precautions: Avoid subsoil penetration. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Water runoff can cause environmental damage. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment Remove all sources of ignition. Ventilate the area. Stop leak if you can do it without risk. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for clean-up: Clean-up methods - small spillage: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean-up methods - large spillage: Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Do not store in open or unlabeled containers. Protect against physical damage. Store between 40 and 120 °F. Keep product and empty container away from heat and sources of ignition. Do not get in eyes, on skin, or on clothing. Keep away from any incompatible materials (See Section 10).

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Materials to avoid: Strong acids and strong bases; Oxidizing agents, Reducing agents, Metal hydrides, Chlorates, Nitrates, Peroxides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Hydrotreated Heavy Paraffinic Oil 64742-54-7	5 mg/m ³ TWA (mist) 10 mg/m ³ STEL (mist)	5 mg/m ³	IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³
Hydrotreated Light Petroleum Distillates 64742-47-8	TWA: 200 ppm	TWA: 500 ppm	-
Mineral Oil 64742-54-7	TWA: 5 mg/m ³ inhalable particulate matter excluding metal working fluids, highly & severely refined	TWA: 5 mg/m ³	IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³
Dipropylene Glycol Methyl Ether 34590-94-8	S* STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 600 mg/m ³	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m ³ STEL: 150 ppm STEL: 900 mg/m ³
Terpene Alcohols 8002-09-03	-	Not established	-

Appropriate engineering controls

Engineering measures: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear normal work clothing, Chemical resistant gloves: (consult with the specific manufacturer to confirm performance). Additional body garments should be used based on task being performed: Chemical resistant suit, and boots; Face-shield.

Respiratory protection Not required under normal use. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Slight Pine
Appearance	Petroleum Based Solution	Odor threshold	No information available
Color	Colorless, Cloudy		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	>= 184 °C / 363 °F	(Lowest liquid component)
Flash point	83 °C / 182 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	Slower than ether	Slower than ether
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	
Specific Gravity	0.840	@ 20° C
Water solubility	Slightly soluble	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	No information available	
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	16.2
	CAS# 64742-47-8 is a VOC Exempt solvent
Density	0.840 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

Possibility of Hazardous Reactions May react with oxidizing agents. May form explosive peroxides.
Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Materials to avoid:

Strong acids and strong bases; Oxidizing agents, Reducing agents, Metal hydrides, Chlorates, Nitrates, Peroxides.

Hazardous Decomposition Products

Hazardous Decomposition Products Carbon dioxide (CO₂), Carbon monoxide, Aldehydes, Ketones, Organic acids, Toxic gases and fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Harmful if inhaled. May cause allergic skin reaction. May be fatal if swallowed and enters airways.
Inhalation	Harmful by inhalation: Avoid breathing vapors or mists.
Eye contact	Contact with eyes may cause irritation.
Skin Contact	May cause allergic skin reaction. May cause irritation.
Ingestion	May be fatal if swallowed and enters airways: Aspiration may cause pulmonary edema and pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Heavy Paraffinic Oil 64742-54-7	>5000mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
Hydrotreated Light Petroleum Distillates 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Mineral Oil 64742-54-7	-	> 5000 mg/kg (Rabbit)	= 2062 ppm (Rat) 4 h
Dipropylene Glycol Methyl Ether 34590-94-8	= 5.35 g/kg (Rat)	= 9500 mg/kg (Rabbit)	-
Terpene Alcohols 8002-09-03	= 3200 mg/kg (Rat)	-	-

Information on toxicological effects

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

Sensitization	May cause sensitization by skin contact. Not classified as a respiratory sensitizer.
Mutagenic effects:	No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA.

Chemical Name	ACGIH	IARC	NTP	OSHA
Mineral Oil 64742-54-7		Group 1	Known	

Reproductive toxicity Dipropylene Glycol Methyl Ether (CAS#34590-94-8): For similar material(s). In laboratory animals, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Chronic toxicity	Prolonged skin contact may defat the skin and produce dermatitis.
Subchronic toxicity	No information available.
Target Organ Effects	Eyes, Skin, Respiratory system, Central nervous system.
Neurological effects	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Other adverse effects	Stomach irregularities: Based on human evidence.
Aspiration hazard	May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 1.5 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	12291 mg/kg
ATEmix (dermal)	5517 mg/kg
ATEmix (inhalation-vapor)	14.9 mg/l

12. ECOLOGICAL INFORMATION

This product contains a chemical or chemicals which is/are listed as a marine pollutant(s) according to IMDG/IMO: Terpene Alcohols (CAS#8002-09-3).

Ecotoxicity

Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

1.56 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrotreated Heavy Paraffinic Oil 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Hydrotreated Light Petroleum Distillates 64742-47-8		45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
Mineral Oil 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Dipropylene Glycol Methyl Ether 34590-94-8		10000: 96 h Pimephales promelas mg/L LC50 static		1919: 48 h Daphnia magna mg/L LC50

Persistence and degradability

NOT READILY BIODEGRADABLE.

Bioaccumulation

Bioaccumulative potential.

Mobility

No information available.

Chemical Name	Partition coefficient
Dipropylene Glycol Methyl Ether 34590-94-8	1.01

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Dispose of in accordance with federal, state and local regulations.

Contaminated packaging

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Limited quantity (LQ) < 5 Liters

DOT

UN/ID No NA1993
Proper Shipping Name: Combustible liquids, n.o.s. (Solvent Naphtha Heavy Aliphatic, Glycol Ether DPM)
Hazard Class Comb. Liq.
Packing Group: III
Marine pollutant This product contains a chemical or chemicals which is/are listed as a marine pollutant(s)

Emergency Response Guide Number according to IMDG/IMO: Terpene Alcohols (CAS#8002-09-3).
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IATA

UN/ID No UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., (Terpene hydrocarbons), Marine Pollutant
Hazard Class 9
Packing Group: III

IMDG

UN/ID No UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., (Terpene hydrocarbons), Marine Pollutant
Hazard Class 9
Packing Group: III
Marine pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO: Terpene Hydrocarbons (CAS#8002-09-3)

15. REGULATORY INFORMATION

International Inventories

Legend:

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

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
Dipropylene Glycol Methyl Ether 34590-94-8	34590-94-8	4-8	1.0 % de minimis concentration

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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.

State Regulations (RTK)

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm:

Chemical Name	CAS Number	California Proposition 65
Beta-Myrcene	123-35-3	Carcinogen

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating

Health hazards 2

Flammability 2

Instability 0

Physical and Chemical Properties -

HMIS Rating

Health hazards 2*

Flammability 2

Physical hazards 0

Personal protection B

Chronic Hazard Star Legend

** = Chronic Health Hazard*

Prepared by

Environmental Health and Safety Department

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Revision Note

This data sheet contains changes from the previous version in section(s): 15.

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet