

Single Clean

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



SECTION 1: IDENTIFICATION OF PRODUCT/COMPANY/SUPPLIER

1.1 Product identifiers

Product name: Single Clean

1.2 Relevant identified uses of the product and restrictions on use

Recommended uses: Diesel Fuel Additive

Restrictions on use: For Industrial and Professional Use

1.3 Details of the supplier of the safety data sheet

Company name: Opti-Lube Inc.

Address: 1646 W Business Park Drive, Suite B

City/State/Zip: Orem, UT 84058, USA

Website: www.opti-lube.com

Phone number: 801-491-3717

1.4 Emergency response number

Hazmat Line: +1 656 208 0809

SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS Hazard classification/statements according to [29 CFR 1910.1200](#) (OSHA):

Flammable Liquids, Category 4:	H227 – Combustible liquid
Aspiration Hazard, Category 1:	H304 – May be fatal if swallowed and enters airways
Skin Irritation, Category 2:	H315 – Causes skin irritation
Eye Irritation, Category 2:	H319 – Causes serious eye irritation
STOT SE, 3 Narcotic Effects:	H336 – May cause drowsiness or dizziness
Carcinogenicity, Category 2:	H351 – Suspected of causing cancer
Aquatic Toxicity, Category 2:	H401 – Toxic to aquatic life
Aquatic Chronic, Category 2:	H411 – Toxic to aquatic life with long lasting effects

2.2 GHS Label Elements according to [29 CFR 1910.1200](#) (OSHA):

Pictogram:



Signal word: Danger!

2.3 GHS Precautionary Statements according to [29 CFR 1910.1200](#) (OSHA):

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

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- P261:** Avoid breathing mist or vapors.
P264: Wash hands/skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P391: Collect spillage.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container to an approved waste disposal plant.

2.4 Other Hazards

Risk of explosion if heated under confinement. Repeated exposure may cause skin dryness or cracking.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical Name	CAS Number	Concentration
2-Ethylhexyl Nitrate	27247-96-7	43.7%
Naphtha (petroleum), heavy aromatic	64742-94-5	3.8-19%
2-Butoxyethanol	111-76-2	2.3-4.7%
1,2,4-Trimethylbenzene	95-63-6	0.4-5.6%
Naphthalene	91-20-3	0.3-2.8%
tert-Butylbenzene	98-06-6	0.9-2.3%
Cumene	98-82-8	0.04-1.87%
Xylene	1330-20-7	0.04-1.87%
2-Ethylhexanol	104-76-7	0.09-0.93%

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1,2,3,5-Tetramethylbenzene	527-53-7	0.09-0.93%
1,4-Diethylbenzene	105-05-5	0.09-0.93%

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

If Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Get medical attention.

If Swallowed: If more than several mouthfuls of this material are swallowed give two glasses of water. Call a physician or Poison Control Center promptly.

Eye contact: Immediately flush with plenty of water, alternately lifting the upper and lower eyelids. If appropriate, after 5 minutes, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation persists.

Skin contact: Wash skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention. Wash clothing and shoes separately before reuse.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable methods: Water spray, Carbon dioxide, dry chemical, or appropriate foam.

Unsuitable methods: For this substance/mixture no limitations of extinguishing agents are given.

5.2 Specific hazards arising from the substance/mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion

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gases or vapors possible in the event of fire.

5.3 Special protective equipment and precautions for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep personnel removed and upwind of spill. Eliminate all ignition sources. Keep unnecessary and unprotected personnel from entering.

6.2 Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface water/groundwater.

6.3 Methods and materials for containment and cleaning up

Eliminate all sources of ignition - heat, sparks, flame, electricity, and impact. Contain spilled material with dikes or absorbents. Do not allow material to enter soil, surface water, or sewer system. Stop the source of the leak, if it is safe to do so. Take up small spills with absorbent pads. Large spills may be taken up with pump or vacuum.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mists. Keep away from food and drinking water. Secure container after each use. Store in a cool dry, secure area. Keep out of reach of children. Protect containers against physical damage.

7.2 Conditions for safe storage, including any compatibilities

Store locked up. Keep away from heat, sparks, and open flames. Eliminate all sources of ignition. Avoid spark promoters. Ground or bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in a tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of this SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Controls

Occupational exposure limit values:

Chemical Name	Source	Value
Solvent naphtha, heavy aromatic	OSHA	PEL: 100 ppm (400 mg/m ³)

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Naphthalene	ACGIH	TWA: 200 mg/m ³
	NIOSH	TWA: 100 mg/m ³
	OSHA	TWA: 10 ppm (50 mg/m ³)
	ACGIH	TWA: 10 ppm (52 mg/m ³)
2-Butoxyethanol	NIOSH	TWA: 10 ppm (50 mg/m ³)
	OSHA	TWA: 50 ppm (240 mg/m ³) [skin]
	ACGIH	TWA: 20 ppm
	NIOSH	No established limit
1,2,3-Trimethylbenzene	OSHA	No established limit
	ACGIH	TWA: 25 ppm
	NIOSH	TWA: 25 ppm (125 mg/m ³)
	ACGIH	TWA: 25 ppm
1,2,4-Trimethylbenzene	NIOSH	TWA: 25 ppm (125 mg/m ³)
	OSHA	PEL: 50 ppm (245 mg/m ³)
	ACGIH	TWA: 50 ppm
	NIOSH	TWA: 50 ppm (245 mg/m ³)
Cumene	OSHA	PEL: 100 ppm (435 mg/m ³)
	ACGIH	TWA: 100 ppm STEL: 150 ppm
	NIOSH	TWA: 100 ppm (435 mg/m ³)
	OSHA	
Xylene	ACGIH	
	NIOSH	
	OSHA	
	ACGIH	

Engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors or particles below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.2 Personal Protective Equipment



Hand protection: Wear appropriate chemical-resistant gloves.

Eye/Face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear respiratory protection.

Hygiene measures: When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Colorless to Yellow
Odor:	Characteristics
Odor Threshold:	Not determined
pH	Not determined
Melting Point:	Not determined
Boiling Point:	Not determined
Flash Point:	70 °C (158.0 °F)

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Auto-ignition Temperature:	215 °C (419 °F)
Upper/Lower Explosive Limits:	Not determined
Vapor Pressure:	Not determined
Evaporation Rate:	Not determined
Flammability (Solid, Gas):	Not determined
Specific Gravity:	0.91
Relative Density:	0.908 g/mL (7.58 lbs/gal)
Solubility in Water:	Not determined
Partition Coefficient (n-octanol / water):	Not determined
Decomposition Temperature:	Not determined
Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of Hazardous Reactions

Thermal decomposition products may include C, CO, CO₂, H₂O, organic vapors.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases

10.6 Hazardous decomposition products

Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

LD50 Oral - Rat - 960 mg/kg

LC50 Inhalation - 4 h - 11 mg/l – vapor

LD50 Dermal - 1,100 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory/Skin sensitization: Not classified based on available information.

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Germ cell mutagenicity: No data is available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not classified based on available information.

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: Not classified based on available information.

Aspiration hazard: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. The product hasn't been tested. The statement derived from the properties of the individual components.

12.2 Persistence and Degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers or water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents and container in accordance with local, regional, national, and international regulations.

Contaminated Packaging: Dispose in accordance with applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

SECTION 14: TRANSPORT INFORMATION

14.1 Transport information

UN Number: UN3082

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UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport Hazard Class: 9

Packing Group: III

Marine Pollutant: Environmental hazardous substance

Special precautions for users: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health, and environment regulations/legislation specific for substance or mixture

US Federal Regulations: This product contains hazardous components as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substance Control Act (TSCA) Inventory: All substances in this product are either listed or are exempt from listing on the TSCA Inventory.

Comprehensive Response Compensation and Liability Act (CERCLA): Not regulated.

SARA 302/304 Emergency Planning & Notification: Not regulated.

SARA 311/312 Hazard: See Section 2 of this SDS for GHS hazards associated with this product.

SARA 313 (TRI Reporting): Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Water Act (CWA) 311: Not regulated.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

This product does not contain any chemicals known to the State of California to cause birth defects or reproductive harm. For more information go to [\(Proposition 65 List of Chemicals\)](#).

SECTION 16: OTHER INFORMATION

16.1 General information

Revision Date: 18-Mar-2026

Previous Revision: 30-June-2020

Version number: 2.0

National Fire Protection Association (NFPA) Rating:



16.2 Full Text of Abbreviations

CAS – Chemical Abstract Service

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GHS – Globally Harmonized System
CFR – Code of Federal Regulations
OSHA – Occupational Safety and Health Administration
NIOSH – The National Institute for Occupational Safety and Health
ACGIH – American Conference of Governmental Industrial Hygienists
TWA – Time Weighted Average
PEL – Permissible Exposure Limits
UN – United Nations
TRI – Toxic Release Inventory
SARA – Superfunds Amendments and Reauthorization Act
SDS – Safety Data Sheet
ADR – Agreement Concerning the International Carriage of Dangerous Goods by Road.
IMDG – International Maritime Dangerous Goods
EPA – Environmental Protection Agency
EHS – Environmentally Hazardous Substance
LD50 – Lethal Dose 50
LC50 – Lethal Concentration 50

16.3 Disclaimer

The information on this SDS is based on data which is considered to be accurate. Opti-Lube Inc., however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information. The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.