

# Pure Cetane

## 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: Pure Cetane

#### 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](http://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

Acute Oral Toxicity, Category 4: H302 – Harmful if swallowed

Acute Dermal Toxicity, Category 4: H312 – Harmful if contact with skin

Acute Inhalation Toxicity, Category 4: H332 – Harmful if inhaled

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: Warning

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

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

**P261:** Avoid breathing mist or vapors.

**P264:** Wash hands/skin thoroughly after handling.

**P270:** Do not eat, drink or smoke when using this product.

**P273:** Avoid release to the environment.

# Pure Cetane

## Safety Data Sheet

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



**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:** 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.  
**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.  
**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	100%

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**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.

# Pure Cetane

## Safety Data Sheet

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



### 4.3 Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable methods:** Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

**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 (NO<sub>x</sub>) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion 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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

### 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.

# Pure Cetane

## Safety Data Sheet

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



### 7.2 Conditions for safe storage, including any compatibilities

Store in a tightly closed container. Store in a cool, dry, well-ventilated area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Controls

**Occupational exposure limit values:** Not established.

**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

<b>Appearance:</b>	Liquid
<b>Color:</b>	Colorless to Yellow
<b>Odor:</b>	Characteristics
<b>Odor Threshold:</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Flash Point:</b>	76.1 °C (169.0 °F)
<b>Auto-ignition Temperature:</b>	215 °C (419 °F)
<b>Upper/Lower Explosive Limits:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined
<b>Flammability (Solid, Gas):</b>	Not determined
<b>Specific Gravity:</b>	0.91
<b>Relative Density:</b>	0.963 g/cm <sup>3</sup> at 25 °C (77 °F)
<b>Solubility in Water:</b>	0.0125 g/l at 20 °C (68 °F) - slightly soluble

# Pure Cetane

## Safety Data Sheet

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



<b>Partition Coefficient (n-octanol / water):</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity</b>	47 cSt @ 40°C (104°F)

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under ordinary conditions of use and storage.

#### 10.3 Possibility of Hazardous Reactions

Thermal decomposition products may include C, CO, CO<sub>2</sub>, H<sub>2</sub>O, organic vapors.

#### 10.4 Conditions to avoid

Do not heat above flash point. Do not exceed handling and storage temperatures listed in SDS Section 7 (Handling and Storage).

#### 10.5 Incompatible materials

Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Hazardous polymerization will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity:

LD<sub>50</sub> Oral - Rat - 960 mg/kg

LC<sub>50</sub> Inhalation - 4 h - 11 mg/l – vapor

LD<sub>50</sub> Dermal - 1,100 mg/kg

**Skin corrosion/irritation:** Not classified based on available information.

**Serious eye damage/irritation:** Not classified based on available information.

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

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

**Carcinogenicity:** The material is not considered a carcinogen.

**Reproductive toxicity:** Not classified based on available information.

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

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

**Aspiration hazard:** Not classified based on available information.

# Pure Cetane

## Safety Data Sheet

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



### 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:** Under the CERCLA regulations currently in effect, this material is regulated as a hazardous waste or material. Therefore, it must be disposed of in a "permitted" hazardous waste facility in compliance with EPA and/or other applicable local, state and federal regulations.

**Contaminated Packaging:** Since emptied containers may retain product residues, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 Transport information

**UN Number:** UN3082

**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.

# Pure Cetane

## Safety Data Sheet

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



### 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:** 4-Mar-2026

**Previous Revision:** 24-June-2020

**Version number:** 2.0

**National Fire Protection Association (NFPA) Rating:**



#### 16.2 Full Text of Abbreviations

CAS – Chemical Abstract Service

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

UN – United Nations

TRI – Toxic Release Inventory

SARA – Superfunds Amendments and Reauthorization Act

SDS – Safety Data Sheet

# Pure Cetane

## Safety Data Sheet

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



---

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.