

Safety Data Sheet

according to US HazCom 2012

Issue date: 9 March 2015 Revision date: 17 Jan 2024 Supersedes: 09/26/2023 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
Trade name : SantoTrac® 2000 Traction Lubricant Base Oil

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Base Oil for Traction Drive Lubricants

1.3. Supplier

Supplier:
SantoLubes LLC
PO Box 6740
Spartanburg, SC 29304 - United States
T +1 864-596-1553
sburian@santolubes.com

1.4. Emergency telephone number

Emergency number : FOR CHEMICAL EMERGENCY, Call CHEMTREC – 1-800-424-9300 or 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin sensitization, Category 1

May cause an allergic skin reaction

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)

:



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: May cause an allergic skin reaction

Precautionary statements (GHS US)

: Obtain special instructions before use.

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

Avoid breathing mist, spray, vapors.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, protective clothing.

If on skin: Wash with plenty of water.

If exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Cyclohexane, 1,1'-(1,1,3-trimethyl-1,3-propanediyl)bis-	CAS-No.: 38970-72-8	>95	Skin Sens. 1B, H317

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Immediately rinse with plenty of water (for at least 15 minutes). Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: Presents no particular fire or explosion hazard.
Explosion hazard	: None known.
Reactivity in case of fire	: None known.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. hydrocarbon substances with low molecular weight and their oxidation products.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 : Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate unnecessary personnel. Avoid contact with spilled material.
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6.1.1. For non-emergency personnel

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| Protective equipment | : Use personal protective equipment as required. Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing mist, spray, vapors. |

6.1.2. For emergency responders

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| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Stop leak if safe to do so. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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| For containment | : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Collect spillage. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Store away from other materials. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose in a safe manner in accordance with local/national regulations. |

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Precautions for safe handling | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing mist, vapors, spray. Avoid contact with skin. Wear personal protective equipment. |
| Hygiene measures | : Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures. |

7.2. Conditions for safe storage, including any incompatibilities

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| Storage conditions | : Store in a dry, cool and well-ventilated place. Keep container tightly closed. Store locked up. |
| Incompatible materials | : Strong oxidizing agents. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

8.2. Appropriate engineering controls

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| Appropriate engineering controls | : Ensure good ventilation of the work station. Provide local exhaust or general room ventilation to minimize vapor concentrations. |
| Environmental exposure controls | : Avoid release to the environment. |

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Impermeable protective gloves. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. ISO 374-1

Eye protection:

Chemical goggles or safety glasses. Use eye protection according to ISO 16321-1

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to slightly hazy liquid.
Color	: Nearly colorless
Odor	: Slight sour odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 590°F (310°C) at 760 mm Hg
Flash point	: 300°F (Cleveland Open Cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 12 mm Hg @ 350°F (177°C)
Relative vapor density at 20°C	: >1
Relative density	: No data available
Density	: 0.88 – 0.92 g/cm³ @ 25 °C; 77 °F
Solubility	: Poorly soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: 600°F (316°C) ASTM D-2155
Decomposition temperature	: No data available
Viscosity, kinematic	: 22-24 mm²/s @ 100 °F
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon monoxide. Carbon dioxide. hydrocarbon substances with low molecular weight and their oxidation products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Santotrac® 2000 Traction Lubricant Base Oil	
LD50 oral rat	> 15800 mg/kg
LD50 dermal rabbit	> 7940 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: 22-24 mm²/s @ 100 °F
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity General: Toxic to aquatic life with long lasting effects

12.2. Persistence and degradability

Santotrac® 2000 Traction Lubricant Base Oil	
Persistence and degradability	Slowly biodegradable.
Biodegradation	7 – 21 % 24-hour semi-continuous activated sludge test (SCAS)

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12.3. Bioaccumulative potential

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Bioaccumulative potential	Moderately bioaccumulative.
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Cyclohexane, 1,1'-(1,1,3-trimethyl-1,3-propanediyl)bis- (38970-72-8)

Partition coefficient n-octanol/water (Log Pow)	> 7.2 (at 35 °C)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of in accordance with relevant local regulations. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

According to US HazCom 2012

Revision date : 17 Jan 2024

Other information : None.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.