

Santolubes LLC

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Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **SANTOLUBES® 32 Traction Lubricant**

Company Name: Santolubes Japan GK

Chemical Family: Synthetic Hydrocarbon

Chemical Name: CAS NO:38970-72-8 2,4-DICYCLOHEXYL-2-METHYLPENTANE

CHEMICAL EMERGENCY: Phone: + 81-776-43-1456 Fax: + 81-776-43-1466

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE :

This material is not classified for any hazards of GHS.

PHYSICAL HAZARDS

Explosives	: classification not possible.
Flammable gases	: Not applicable.
Flammable aerosols	: Classification not possible.
Oxidizing gases	: Not applicable
Gases under pressure	: Not applicable.
Flammable liquids	: Not applicable.
Flammable solids	: Not classified.
Self-reactive substances and mixture	: Classification not possible.
Pyrophoric liquids	: Classification not possible.
Pyrophoric solids	: Not applicable.

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Self-heating substances and mixtures : Classification not possible.

Substances and mixtures, which in contact with water, emit flammable gases : Classification not possible.

Oxidizing liquids : Classification not possible.

Oxidizing solids : Not applicable.

Organic peroxides : Classification not possible.

Corrosive to metals : Classification not possible.

HEALTH HAZARDS

Acute toxicity: ora1 : Not classified.

Acute toxicity: skin : Not classified.

Acute toxicity: inhalation (gas) : Not applicable.

Acute toxicity: inhalation (vapor) : Classification not possible.

Acute toxicity: inhalation (dust) : Not applicable.

Acute toxicity: inhalation (mist) : Classification not possible.

Skin corrosion/irritation : Classification not possible.

Serious eye damage/eye irritation : Classification not possible.

Respiratory sensitization : Classification not possible.

Skin sensitization : Classification not possible.

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Germ cell mutagenicity : Classification not possible.

Carcinogenicity : Classification not possible.

Toxic to reproduction : Classification not possible.

Specific target organ toxicity (single exposure)
:Classification not possible.

Specific target organ toxicity (repeated exposure)
: Classification not possible.

Aspiration hazard :Classification not Possible.

ENVIRONMENTAL HAZARDS

Hazardous to the aquatic environment (acute)
: Not classified

Hazardous to the aquatic environment (chronic)
:Classification not possible

GHS LABEL ELEMENTS :

PICTOGRAMS : Not required

SIGNAL WORD : Warning

HAZARD STATEMENTS : Causes minor skin irritation and may cause eye and respiratory irritation.

PRECAUTIONARY STATEMENTS :

Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact.

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Avoid breathing dust/fume/gas/mist/vapors/spray.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Prevention :

Obtain special instructions before use, and DO NOT handle until all safety precautions have been read and understood.

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

Use only outdoors or in a well-ventilated area and DO NOT breathe dust mist/vapor.

Use personal protective equipment; protective helmet/eye protection/face protection/respirator/protective

gloves/protective clothing/safety shoes as required.

Wash hands, face, and other necessary parts thoroughly, and gargle after handling.

Avoid release to the environment.

Response :

IF exposed or concerned, or if you feel unwell : Get medical advice/ attention.

Storage :

Avoid direct sunlight, open flame, ignition sources. Store in well ventilated area..

Disposal :

Dispose of contents/container in accordance with local/regional/national/international regulations.

Do not reuse the container for any other purpose. Dispose of in accordance with applicable laws and regulations.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION :

None. Specific hazard for usual industrial or commercial handling.

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Polymers are expected to be physiologically inert and not to cause any acute toxicological effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synthetic Hydrocarbon:	70 –99%
Zinc Dialkylthiophosphate:	Maximum 3%

4. HAZARDS IDENTIFICATION

Primary routes of exposure:

Eye contact: Material can cause slight to moderate irritation.

Skin contact: Slight to moderate irritation is expected.

5. FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. Call a physician.

SKIN: Wipe off excess and wash with soap and plenty of water. Remove contaminated clothing. Wash clothing before reuse.

6. FIRE FIGHTING MEASURES

Flash Point: 317°F (COC)

Auto Ignition Temperature: 618°F

Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.

Special Fire Fighting Procedures: Fire fighters or others likely to be exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

Unusual Fire and Explosion Hazards: Products of decomposition include carbon monoxide, carbon dioxide, and hydrocarbons.

7. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK: Absorb with a suitable media such as sawdust, clay or filtercel.

8. HANDLING AND STORAGE

SANTOLUBES® 32 lubricant is stable under ordinary handling and storage conditions.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Eye Protection: Santolubes® 32 Traction Lubricant causes only slight eye irritation. No special protection required. Avoid eye contact as good industrial practice.

Skin Protection: Wear appropriate protective gloves that provide a barrier and protective clothing to prevent skin contact. Consult glove manufacturer to determine appropriate type glove for given application. Wear face shield and apron when splashing is likely. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

Respiratory Protection: Avoid breathing vapor or mist. Use NIOSH/MSHA approved equipment. The respirator use limitations specified by NIOSH/MSHA or the manufacturer must be observed. High airborne concentrations may require use of self-contained breathing apparatus or supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

Ventilation: Provide ventilation to minimize exposure. Use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange liquid
Density @ 25°C:	0.88 – 0.92 g/cc
Viscosity @ 100°F:	31 centistokes
Solubility in Water:	Very low

11. STABILITY AND REACTIVITY

Stability: Santolubes® 32 lubricant is stable under ordinary handling and storage conditions.

Materials to Avoid: Exposure to highly oxidizing materials should be avoided.

Hazardous Decomposition Products: No uniquely hazardous decomposition products are expected. If the product is burned, carbon dioxide, carbon monoxide, low molecular weight hydrocarbons, soot, and smoke can be produced.

Hazardous Polymerization: Will not occur.

12. TOXICOLOGICAL INFORMATION

SANTOTLUBES® 32

Toxicological Data

Santolubes has not conducted acute toxicity studies with Santolubes® 32. However, the following acute data were developed on the synthetic hydrocarbon base fluid, and are considered to be representative of Santolubes® 32.

Oral LD50 (Rat): Greater than 15,800 mg/kg, Practically Nontoxic

Dermal LD50 (Rabbit): Greater than 7,940 mg/kg, Practically Nontoxic

Eye Irritation (Rabbit, 24-hr): 3.5 on a scale of 110.0, Slightly Irritating

Skin Irritation (Rabbit, 24-hr): 0.0 on a scale of 8.0, Nonirritating

Vapor Inhalation (Rat): Rats were exposed to a stream of air passed through the lubricant and led directly into the experimental chamber. Due to its low volatility, there was essentially no vaporization of the test material and the animals survived both the 6-hour exposure and subsequent 10-day observation periods without observable effects.

13. ECOLOGICAL INFORMATION

Santolubes® 32 had a primary degradation rate of 7% to 21% in a 24-hour semi-continuous activated sludge test (SCAS). Biodegradability of this material was classified as slow to resistant.

Oral LD50 Mallard Duck: Greater than 4,640 mg/kg, Practically Nontoxic

Oral LD50 Bobwhite Quail: Greater than 4,640 mg/kg, Practically Nontoxic

96-hr LC50 Fathead Minnow: Greater than 1,000 mg/l, Practically Nontoxic

The bioaccumulation potential in bluegill sunfish was measured over a 32-day period. It was determined that this material has a moderate potential to bioaccumulate in this aquatic specie.

14. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dispose of in accordance with all federal, state and local environmental regulations. Recommended method of disposal is by high temperature incineration in a RCRA approved TSDF.

15. TRANSPORT INFORMATION

Hazard Class:

This material is not classified as a hazardous material by the U.S. Department of Transportation (DOT) nor by the International Air Transport Association (IATA).

16. REGULATORY INFORMATION

SANTOTLUBES® 32

SARA Hazard Notification Hazard Categories Under Criteria of SARA Title III Rules
(40 CFR Part 370): Immediate

Section 313 Toxic Chemical(s): Not Applicable

17. OTHER INFORMATION

NOTICE: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Santolubes LLC makes no representations as to the completeness or accuracy thereof. Information is supplied upon the conditions that the persons receiving same will make their own determinations as to its suitability for their purposes prior to use. In no event will Santolubes LLC be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

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