

Safety Data Sheet

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

PRODUCT NAME: **SANTOLUBES® 32**

Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Traction drive type machine tools
Details of the supplier of the safety data sheet

Supplier: Limited Liability Company Of Elements Technical
Address: Kumonmyou 80-141-16 Tsuruga shi Fukui ken 914-0133 JAPAN
Telephone number: +81-770-21-3017 FAX: +81-770-37-5019

Manufacturer: SANTOLUBES JAPAN GK
Address: 8-42.Hirayama Mikuni Machi Sakai shi Fukui ken 913-0004 JAPAN
Telephone number: +81-776-43-1456 FAX: +81-776-43-1466

2. HAZARDS IDENTIFICATION

GHS classification and label elements of the product

Classification of the substance or mixture

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2B

Germ cell mutagenicity: Category 1B

Carcinogenicity: Category 1B

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)



Signal word: Danger

HAZARD STATEMENT

H320 Causes eye irritation

H340 May cause genetic defects

H350 May cause cancer

PRECAUTIONARY STATEMENT

Prevention

P201 Obtain special instructions before use.

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

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

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.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture/Substance selection:

Mixture

Ingredient name	CAS No.	Content (%)
1,1'-(1,1,3-Trimethylpropane-1,3-diyl)bis(cyclohexane)	38970-72-8	95
Mineral oil	64742-54-7	< 5
	64742-65-0	
	64742-55-8	
	64742-56-9	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	< 1
Stoddard solvent	8052-41-3	< 1
Methanol	67-56-1	< 0.1

Note : The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

4. FIRST AID MEASURES

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

Call a POISON CENTER/doctor/physician if you feel unwell.

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Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

Indication of any immediate medical attention and special treatment needed

Information on indication of any immediate medical attention and special treatment needed is not available.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

In case of fire, use foam, dry powder, CO₂ to extinguish.

Unsuitable extinguishing media

Do not use direct water jet.

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Extinguish from the windward to the extent possible.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated

in the positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Stop leak if safe to do so.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

If flown out into rivers, contact competent authorities.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

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(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take action to prevent static discharges.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

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.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Any incompatibilities

Strong oxidizing agents should not be mixed with the chemicals.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Wash contaminated parts thoroughly after handling.

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

Wash hands thoroughly after handling.

Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Store locked up.

Store in a dry place.

(Incompatible storage condition)

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Container and packaging materials for safe handling data is not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limit

ACGIH

(Mineral oil)

TWA: as low as possible(L)(as Poorly and mildly refined Mineral oil, excluding metal working fluids) (URT irr)

(Stoddard solvent)

TWA: 100ppm (Eye, skin & kidney dam; nausea; CNS impair)

(Methanol)

TWA: 200ppm; STEL: 250ppm (Headache; eye dam; dizziness; nausea)

Notation

(Methanol)

Skin

OSHA-PEL

(Methanol)

TWA: 200ppm, 260mg/m³

(Stoddard solvent)

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TWA: 500ppm, 2900mg/m³

NIOSH-REL

(Methanol)

TWA: 200ppm; STEL: 250ppm

(Stoddard solvent)

TWA: 350mg/m³; STEL: C 1800mg/m³ [15-min]

California proposition 65

Reproductive Toxicity MADL

(Methanol)

MADL=47000µg/day (inhalation); 23000µg/day (oral)

Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Chemical protective gloves Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Color: Orange

Pour point:-42.5°C

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids): Combustible

Lower and upper explosion limit/flammability limit data is not available.

Flash point: 144°C

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Insoluble

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density: 0.9

Relative vapor density (Air=1) data is not available.

Particle characteristics: Not applicable

Evaporation rate data is not available.

10. STABILITY AND REACTIVITY

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

Conditions to avoid

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

The following substances are produced by pyrolysis.

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

Category 3

[Company proprietary data]

(Product)

rat LD50: >15800 mg/kg

rabbit LD50: >7940 mg/kg (Supplier's SDS)

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

Category 3

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

Category 3

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

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No data available.

Serious eye damage/irritation

[Product]

Category 2B, Causes eye irritation

[Data for components of the product]

[Company proprietary data]

(Product)

Category 2B

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Category 1B, May cause genetic defects

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Naphtha (petroleum), hydrotreated heavy)

Category 1B

(Stoddard solvent)

Category 1B

Carcinogenicity

[Product]

Category 1B, May cause cancer

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Mineral oil)

Category 1B

(Naphtha (petroleum), hydrotreated heavy)

Category 1B

(Stoddard solvent)

Category 1B

[IARC]

(Mineral oil)

Group 1 : Carcinogenic to humans

[ACGIH]

(Mineral oil)

A2(as Poorly and mildly refined Mineral oil, excluding metal working fluids):

Suspected

Human Carcinogen

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

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[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT-single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

Category 1 (No target organ information)

STOT-repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Stoddard solvent)

Category 1 (central nervous system)

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Naphtha (petroleum), hydrotreated heavy)

Category 1

(Stoddard solvent)

Category 1

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

[Company proprietary data]

(Product)

Fish (Fathead minnow) LC50: >1000 mg/kg

Water solubility

(Naphtha (petroleum), hydrotreated heavy)

none (source: ICSC, 2001)

(Stoddard solvent)

none (source: ICSC, 2004)

(Methanol)

not poorly water-soluble (1000000 mg/L) (source: NITE)

Persistence and degradability

[Data for components of the product]

(Stoddard solvent)

Not rapidly degradable (Degradation rate: 12 - 13% (by BOD)) (source: NITE)

Bioaccumulative potential

[Data for components of the product]

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(Stoddard solvent)

log Pow: 3.16 - 7.06 (source: ICSC, 2004)

(Methanol)

log Pow: -0.74 (source: ICSC, 2018)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal,

including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

14. TRANSPORT INFORMATION

UN No., UN CLASS

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

IATA (Dangerous Goods Regulations)

UN Number or ID Number : Not regulated

UN Proper Shipping Name : Not regulated

Class or division (Transport hazard class) : Not regulated

Packing group : Not regulated

Environmental hazards

Marine pollutants (yes/no) : no

Special precautions for user

Special precautions for user is not applicable.

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

Noxious Liquid Substances ; Cat. Y

Methanol

MARPOL Annex V - HME (Harmful to the Marine Environment)

Not applicable to Maritime transport in bulk according to IMO instruments.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Methanol; Stoddard solvent; 1,1'-(1,1,3-Trimethylpropane-1,3-diyl)bis(cyclohexane);

Naphtha (petroleum), hydrotreated heavy; Mineral oil

Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III,

Section 313.

California proposition 65

WARNING: This product can expose you to chemical(s), which is(are) known to the State of California to cause cancer, and/or chemical(s), which is (are) known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

Reproductive Toxicity

Methanol (Developmental Toxicity)

Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

16. OTHER INFORMATION

GHS classification and labelling

Serious eye damage/eye irritation, Category 2B: H320 Causes eye irritation

Germ cell mutagenicity, Category 1B: H340 May cause genetic defects

Carcinogenicity, Category 1B: H350 May cause cancer

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 23rd edit., 2023 UN

IMDG Code, 2024 Edition (Incorporating Amendment 42-24)

IATA Dangerous Goods Regulations (66th Edition) 2025

2024 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

Supplier's data/information

Hazard Communication Standard - 2012 (29 CFR 1910.1200)

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

This data sheet was created based on the information we currently have and may be revised

according to new information. In addition, the precautions apply only to normal handling,

and in the case of special handling, please make adequate countermeasure to maintain your safety.

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The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 01/12/2023 and Commission delegated regulation (EU) 2024/197 (ATP21)).

But the data are partially changed based on our judgement.

DATE:7/1/2025