



Version: 1.0

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier Product name: TS-J2

Other means of identification: For further information, please refer to section 9 of the SDS.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Lubricant

Uses advised against: No uses advised against identified. **US** Distributor

Fuchs Lubricants Co. 1.3 Details of the supplier of the safety data sheet

17050 Lathrop Avenue Manufacturer / Supplier FUCHS LUBRITECH GmbH

> Werner-Heisenberg-Strasse 1 Harvey, IL 60426

67661 Kaiserslautern (708) 333-8900

Telephone: +49 (0) 6301 3206-0 (800) 255-3924 24 hrs

+49 (0) 6301 3206-940 Fax:

Emergency

Contact Person: FUCHS LUBRITECH GmbH - Product Safety Management

E-mail: flt.reach@fuchs.com Telephone: +49 (0) 6301 3206-0 Fax: +49 (0) 6301 3206-940

1.4 US contact telephone: 708-333-8900

Emergency telephone: 800-255-3924

HAZARDS IDENTIFICATION 2

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

Physical Hazards

Flammable liquids Category 3

Hazard summary

Physical Hazards: Can form flammable vapour-air mixtures during the application.

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2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H226: Flammable liquid and vapor.

Precautionary Statements

Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

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

protection.

Response: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

Storage: P403: Store in a well-ventilated place.

P235: Keep cool.

Disposal: P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective

equipment (item 8) are kept.

Unknown toxicity: Due to information available product does not contain any ingredients of

unknown toxicity.

3 COMPOSITION / INFORMATION ON INGREDIENTS

General information: Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	Notes
Titanium dioxide	13463-67-7	1.00 - <5.00%	
1-Methoxy-2-propanol	107-98-2	1.00 - <5.00%	
ethyl acetate	141-78-6	0.10 - <1.00%	
iso-butanol	78-83-1	0.10 - <1.00%	
Dioxane	123-91-1	0.00 - <0.10%	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.





Classification

Chemical name	Identifier	Classification
Titanium dioxide	13463-67-7	
1-Methoxy-2-propanol	107-98-2	Flam. Liq. 3;H226, STOT SE 3;H336
ethyl acetate	141-78-6	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336
iso-butanol	78-83-1	Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, STOT SE 3;H336
Dioxane	123-91-1	Flam. Liq. 2;H225, Carc. 2;H351, Eye Irrit. 2;H319, STOT SE 3;H335

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008."

4 **FIRST AID MEASURES**

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eve contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Get medical attention if symptoms occur. Take off immediately all

contaminated clothing. Rinse skin with water [or shower]. Wash with water

and soap; pay attention: skin degreasing product.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

Headache.

4.3 Indication of any immediate medical attention and special

treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

containers from fire area if you can do so without risk.

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

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5.2 Special hazards arising from the substance or mixture:

Can form explosive vapor-air mixtures at higher temperatures.

5.3 Advice for firefighters

Special fire fighting procedures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. In case of spills, beware of slippery floors and surfaces. Keep away from sources of ignition - No smoking.

6.2 Environmental Precautions:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Use only in well-ventilated areas. Risk of vapor concentration on the floor and in low-lying areas. Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

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7.2 Conditions for safe storage,

including any incompatibilities:

Store in a well-ventilated place. Store in a cool place. The precautions for storing and handling of flammable liquids have to be kept. Local regulations

for common storage of flammable liquids have to be followed.

7.3 Specific end use(s): Not applicable

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000),
			as amended (02 2006)
Titanium dioxide - Total dust.	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR
			1910.1000), as amended (1989)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values,
			as amended (02 2012)
1-Methoxy-2-propanol	TWA	100 ppm 360 mg/m3	US. OSHA Table Z-1-A (29 CFR
			1910.1000), as amended (1989)
1-Methoxy-2-propanol	STEL	150 ppm 540 mg/m3	US. OSHA Table Z-1-A (29 CFR
			1910.1000), as amended (1989)
1-Methoxy-2-propanol	TWA	50 ppm	US. ACGIH Threshold Limit Values,
			as amended (02 2013)
1-Methoxy-2-propanol	STEL	100 ppm	US. ACGIH Threshold Limit Values,
			as amended (02 2013)
ethyl acetate	TWA	400 ppm	US. ACGIH Threshold Limit Values,
			as amended (02 2012)
iso-butanol	PEL	100 ppm 300 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000),
			as amended (02 2006)
iso-butanol	TWA	50 ppm 150 mg/m3	US. OSHA Table Z-1-A (29 CFR
			1910.1000), as amended (1989)
iso-butanol	TWA	50 ppm	US. ACGIH Threshold Limit Values,
			as amended (02 2012)
Dioxane	PEL	100 ppm 360 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000),
			as amended (02 2006)
Dioxane	TWA	25 ppm 90 mg/m3	US. OSHA Table Z-1-A (29 CFR
			1910.1000), as amended (1989)
Dioxane	TWA	20 ppm	US. ACGIH Threshold Limit Values,
			as amended (02 2012)

8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below

recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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General information: Wash hands before breaks and after work. Use personal protective

> equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should

be adhered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Avoid contact with skin and eyes. Goggles/face shield are recommended. If

risk of splashing, wear safety goggles or face shield.

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0.38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing

vapour/ aerosol.

Thermal hazards: No data available.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

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wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental Controls: No data available.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state: liquid Form: liquid Color: Dark gray Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: substance/mixture is non-soluble (in water)

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: 32 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-: Not applicable for mixtures

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Flammability Limit - Lower (%)—: Not applicable for mixtures

Vapor pressure: Not applicable for mixtures

Relative vapor density: Not applicable for mixtures

Density: 1.10 g/cm3 (20 °C)

Solubility(ies)

Solubility in Water: No data available.

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature:

Decomposition Temperature:

Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Heat, sparks, flames.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

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Specified substance(s)

Titanium dioxide LD 50 (Rat): > 10,000 mg/kg

1-Methoxy-2-propanol LD 50 (Rat): > 5,000 mg/kg

ethyl acetate LD 50 (Rat): 5,600 mg/kg

iso-butanol LD 50 (Rat): 2,460 mg/kg

Dioxane LD 50 (Rat): 4,200 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

1-Methoxy-2-propanol LD 50 (Rabbit): 13,500 mg/kg

ethyl acetate LD 50 (Rabbit): 18,000 mg/kg

iso-butanol LD 50 (Rabbit): 4,200 mg/kg

Dioxane LD 50 (Rabbit): 7,600 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

1-Methoxy-2-propanol LC 50 (Rat, 4 h): > 6 mg/l

ethyl acetate LC 50 (Rat, 4 h): 1,600 mg/l

Dioxane LC 50 (Rat, 4 h): 46 mg/l

Vapour

Skin Corrosion/Irritation:

Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

ethyl acetate No sensitizing effect (guinea pig); OECD 406

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Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

OSHASP: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

ethyl acetate Nervous System

May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

12 **ECOLOGICAL INFORMATION**

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

1-Methoxy-2-propanol LC 50 (Fish, 96 h): > 4,600 mg/l

ethyl acetate LC 50 (Fish, 96 h): 230 mg/l

iso-butanol LC 50 (Fish, 96 h): 1,430 mg/l

Aquatic Invertebrates Specified substance(s)

1-Methoxy-2-propanol EC 50 (Water Flea, 48 h): > 500 mg/l

ethyl acetate EC 50 (Water Flea, 48 h): 717 mg/l

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

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Aquatic Invertebrates Specified substance(s)

iso-butanol NOEC (Water Flea, 21 d): 20 mg/l

Toxicity to Aquatic Plants Specified substance(s)

1-Methoxy-2-propanol EC 50 (Alga): > 1,000 mg/l

EC 50 (Alga, 72 h): 1,799 mg/l (OECD 201) iso-butanol

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

ethyl acetate 79 % (20 d, OECD 301D) Readily biodegradable

iso-butanol 70 - 80 % (28 d, OECD 301D) Readily biodegradable

Not applicable for mixtures

12.3 Bioaccumulative potential

Product:

Specified substance(s)

ethyl acetate Bioconcentration Factor (BCF): 30

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: No data available.

13 **Disposal considerations**

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

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14 TRANSPORT INFORMATION

DOT

14.1 UN Number: UN 1993

14.2 Proper Shipping Name: Flammable liquids, n.o.s.(Acetic acid ester, 1-Methoxy-2-

propanol, ethyl acetate)

14.3 Transport Hazard Class(es): 3
14.4 Subsidiary risk label: –
14.5 Packing Group: III
14.6 Label(s): 3

IMDG - International Maritime Dangerous Goods Code

14.1 UN Number: UN 1993

14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Acetic acid ester, 1-Methoxy-

2-propanol, ethyl acetate)

14.3 Transport Hazard Class(es): 3
14.4 Subsidiary risk label: —
14.5 Packing Group: III
14.6 Label(s): 3
14.7 Marine Pollutant: —

14.8 EmS No.: F-E; S-E

IATA

14.1 UN Number: UN 1993

14.2 Proper Shipping Name: Flammable liquid, n.o.s.(Acetic acid ester, 1-Methoxy-2-

propanol, ethyl acetate)

14.3 Transport Hazard Class(es): 3
14.4 Subsidiary risk label: 14.5 Packing Group: III
14.6 Label(s): 3

15 REGULATORY INFORMATION

US Federal Regulations

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Inventory Status

DSL	Not in compliance with the inventory.
NDSL	Not in compliance with the inventory.
TSCA	On or in compliance with the inventory

16 OTHER INFORMATION

Revision Information: Vertical lines in the margin indicate an amendment.

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Product name: TS-J2

Wording of the H-statements in section 2 and 3

H225 Highly flammable liquid and vapor. H226 Flammable liquid and vapor. H315 Causes skin irritation. H318 Causes serious eye damage. Causes serious eye irritation. H319 H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

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Disclaimer: The data contained in this safety data sheet are based on our current

knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no

signature.

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