



**Product name:** SILKOLENE PRO FST

**Health Hazards**

**Inhalation:** Has a narcotic effect.

**2.2 Label Elements**

**Contains:** Isopropanol



**Signal Words:** Danger

**Hazard Statement(s):** H224: Extremely flammable liquid and vapor.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.

**Precautionary Statement**

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P262: Do not get in eyes, on skin, or on clothing.

**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. The product may not be released into the environment without control.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**General information:**

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Isopropanol	200-661-7	50,00 - <100,00%	01-2119457558	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.



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### Classification

Chemical name	Identifier	Classification
Isopropanol	200-661-7	CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

**General:** Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

#### 4.1 Description of first aid measures

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

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Get medical attention if symptoms occur. Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation.

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

**Hazards:** No data available.

**Treatment:** 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:** CO<sub>2</sub>, 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.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

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### 5.3 Advice for firefighters

**Special fire fighting procedures:** No data available.

**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.

## 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).

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

**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:** Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. 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.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in a well-ventilated place. Store in a cool place. Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols.

**7.3 Specific end use(s):** not applicable

**Storage Class:** 3, Flammable Liquids

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Isopropanol	TWA	400 ppm 999 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Isopropanol	STEL	500 ppm 1.250 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

### 8.2 Exposure controls

#### Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. 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

##### 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 in handling the chemicals or the mineral oil products.

##### Eye/face protection:

Safety glasses (EN 166) recommended during refilling.

##### Skin protection

##### Hand Protection:

Nitrile butyl rubber (NBR). 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:

Seek advice from local supervisor. 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 wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

##### Environmental Controls:

No data available.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Colourless
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	13 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	0,81 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Solubility in Water:	partly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	1,5 mm <sup>2</sup> /s (40 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information No data available.

## SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Heat, sparks, flames.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.

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**10.6 Hazardous Decomposition Products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** Causes eye irritation.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**  
Isopropanol LD 50 (Rat): 4.570 mg/kg

##### Dermal

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**  
Isopropanol LD 50 (Rabbit): 13.400 mg/kg

##### Inhalation

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**  
Isopropanol LC 50 (Rat, 4 h): 30 mg/l

#### Repeated dose toxicity

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

#### Skin Corrosion/Irritation:

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

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**Serious Eye Damage/Eye Irritation:**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Respiratory or Skin Sensitization:**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

Isopropanol No data available.

**Aspiration Hazard**

**Product:** No data available.



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**Specified substance(s)**  
Isopropanol No data available.

**Other Adverse Effects:** No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

#### Chronic Toxicity

##### Fish

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

### 12.2 Persistence and Degradability

#### Biodegradation

**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

### 12.3 Bioaccumulative Potential



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**Product:** No data available.

**Specified substance(s)**  
Isopropanol No data available.

**12.4 Mobility in Soil:** No data available.

**Known or predicted distribution to environmental compartments**  
Isopropanol No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

Isopropanol No data available.

**12.6 Other Adverse Effects:** No data available.

**Water Hazard Class (WGK):** WGK 1: slightly water-endangering.

## SECTION 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.

#### European Waste Codes

13 07 03\*: other fuels (including mixtures)

## SECTION 14: Transport information

### ADR/RID

14.1 UN Number: UN 1219  
14.2 UN Proper Shipping Name: ISOPROPANOL  
14.3 Transport Hazard Class(es)  
Class: 3  
Label(s): 3  
Hazard No. (ADR): 33  
Tunnel restriction code: (D/E)  
14.4 Packing Group: II  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

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**ADN**

14.1 UN Number: UN 1219  
14.2 UN Proper Shipping Name: ISOPROPANOL  
14.3 Transport Hazard Class(es)  
    Class: 3  
    Label(s): 3  
14.3 Packing Group: II  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

**IMDG**

14.1 UN Number: UN 1219  
14.2 UN Proper Shipping Name: ISOPROPANOL  
14.3 Transport Hazard Class(es)  
    Class: 3  
    Label(s): 3  
    EmS No.: F-E, S-D  
14.3 Packing Group: II  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

**IATA**

14.1 UN Number: UN 1219  
14.2 Proper Shipping Name: Isopropanol  
14.3 Transport Hazard Class(es):  
    Class: 3  
    Label(s): 3  
14.4 Packing Group: II  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable.

**SECTION 15: Regulatory information**

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

**EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

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



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**Wording of the H-statements in section 2 and 3**

H224	Extremely flammable liquid and vapor.
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**Training information:** Follow training instructions when handling this material.

**Other information:** The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

**Revision Date:** 05.10.2015

**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.