

OKS 2670

Version 1.8

Revision Date 08.02.2021

Print Date 08.02.2021

1. Identification of the substance/mixture and of the company/undertaking

Product information

Product name : OKS 2670

Use of the Substance/Mixture : Cleaning agent / Cleaner

Company : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599
info@oks-germany.com

E-mail address : mcm@oks-germany.com
Material Compliance Management

National contact :

Emergency telephone number : +7 495 628 1687
+49 8142 3051 517

2. Hazards identification

GHS Classification

: Flammable liquids, Category 2
Skin irritation, Category 3
Eye irritation, Category 2A
Specific target organ toxicity - single exposure, Category 3,
Central nervous system
Aspiration hazard, Category 1

GHS-Labeling

Symbol(s) :   

Signal word : Danger

Hazard statements : H225: Highly flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P233 Keep container tightly closed.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

3. Composition/information on ingredients

Chemical nature : Solvent mixture

Hazardous components

Chemical name	CAS-No.	Concentration[%]
Propan-2-ol	67-63-0	50 - 70
Alkanes, C9-12-iso-	64742-49-0	30 - 50
Ethyl acetate	141-78-6	10 - 20

4. First aid measures

- If inhaled : Call a physician or poison control centre immediately.
Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Seek medical advice.
- If swallowed : Move the victim to fresh air.
If accidentally swallowed obtain immediate medical attention.



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If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Aspiration hazard if swallowed - can enter lungs and cause damage.

Notes to physician

- Symptoms : Inhalation may provoke the following symptoms:
Unconsciousness
Dizziness
Drowsiness
Headache
Nausea
Tiredness
Skin contact may provoke the following symptoms:
Erythema
- Aspiration may cause pulmonary oedema and pneumonitis.
- Risks : Central nervous system depression
Can be absorbed through skin.
Risk of product entering the lungs on vomiting after ingestion.
Health injuries may be delayed.
- Treatment : Treat symptomatically.

5. Firefighting measures

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides
- Specific hazards during firefighting : Do not let product enter drains.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
Exposure to decomposition products may be a hazard to health.



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Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Cool containers/tanks with water spray.

6. Accidental release measures

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Try to prevent the material from entering drains or water courses.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Non-sparking tools should be used.

7. Handling and storage

Handling

Advice on safe handling : Use only in an area containing explosion proof equipment.
Do not use in areas without adequate ventilation.
Do not breathe vapours or spray mist.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after handling the product.
Ensure all equipment is electrically grounded before beginning transfer operations.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.
Do not use sparking tools.



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Do not enter areas where used or stored until adequately ventilated.
 Do not repack.
 Do not re-use empty containers.
 These safety instructions also apply to empty packaging which may still contain product residues.
 Keep container closed when not in use.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Store in original container.
 Keep container closed when not in use.
 Keep in a cool place away from oxidizing agents.
 Keep in a dry, cool and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Store in accordance with the particular national regulations.
 Keep in properly labelled containers.

8. Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Propan-2-ol	67-63-0	MPC-TWA	10 mg/m3	2018-04-23	RU OEL
Propan-2-ol	67-63-0	MPC-STEL	50 mg/m3	2018-04-23	RU OEL
Ethyl acetate	141-78-6	MPC-TWA	50 mg/m3	2018-04-23	RU OEL
Ethyl acetate	141-78-6	MPC-STEL	200 mg/m3	2018-04-23	RU OEL

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.
 Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.



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Type A

- Hand protection : butyl-rubber
Manufacturer, importer, supplier: Class 1
Break through time: > 10 min
Wear protective gloves.
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
- Eye protection : Safety glasses with side-shields
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

9. Physical and chemical properties

Appearance

- Physical state : liquid
- Colour : colourless
- Odour : characteristic

Safety data

- Flash point : -15 °C
Method: DIN 51755
closed cup
- Ignition temperature : Remarks: No data available
- Lower explosion limit : 0,6 %(V)
- Upper explosion limit : 12 %(V)
- Flammability (solid, gas) : Not applicable
- Oxidizing properties : Note: No data available
- Auto-ignition temperature : Note: No data available



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pH	: Note: Not applicable
	: Note: Not applicable
Boiling point/boiling range	: > 36 °C at 1.013,00 hPa
Sublimation point	: Note: No data available
Vapour pressure	: 98,00 hPa at 20 °C
Density	: 0,78 g/cm ³ at 20 °C
Bulk density	: Note: No data available
Water solubility	: Note: partly miscible
Partition coefficient: n-octanol/water	: Note: No data available
Solubility in other solvents	: Note: No data available
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: <=3,5 mm ² /s at 40 °C
Relative vapour density	: Note: No data available
Evaporation rate	: Note: No data available

10. Stability and reactivity

Conditions to avoid	: Heat, flames and sparks. Strong sunlight for prolonged periods.
Materials to avoid	: Oxidizing agents
Hazardous decomposition products	: No decomposition if stored and applied as directed.
Thermal decomposition	: Note: No data available
Hazardous reactions	: No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Acute toxicity



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- Acute oral toxicity :
Remarks: Effects due to ingestion may include:
:
Symptoms: Central nervous system depression
- Acute inhalation toxicity : Remarks: Respiration of solvent vapour may cause dizziness.
:
Symptoms: Inhalation may provoke the following symptoms:,
Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression
- Acute dermal toxicity :
Remarks: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.
:
Symptoms: Skin disorders

Skin corrosion/irritation

- Skin irritation : Remarks: This information is not available.

Serious eye damage/eye irritation

- Eye irritation : Remarks: Irritating to eyes.

Respiratory or skin sensitisation

- Sensitisation : Remarks: This information is not available.

Germ cell mutagenicity

- Genotoxicity in vitro : Remarks: No data available
Genotoxicity in vivo : Remarks: No data available

Target Organ Systemic Toxicant - Single exposure

- Propan-2-ol : Remarks: May cause drowsiness or dizziness.
- Ethyl acetate : Exposure routes: Inhalation
Target Organs: Respiratory system
Remarks: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Target Organ Systemic Toxicant - Repeated exposure

- : This information is not available.



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Target Organ Systemic Toxicant - Repeated exposure

Ethyl acetate : Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Aspiration toxicity : May be fatal if swallowed and enters airways.

Further information : Information given is based on data on the components and the toxicology of similar products.

12. Ecological information

Ecotoxicity effects

Toxicity to fish :
Remarks:
No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks:
No data available

Toxicity to algae : Remarks:
No data available

Toxicity to bacteria : Remarks:
No data available

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Mobility : Remarks:
No data available

Distribution among environmental compartments : Remarks:
No data available

Biodegradability : Remarks:



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No data available

Physico-chemical removability : Remarks:
No data available

Further information on ecology

Additional ecological information : No information on ecology is available.

13. Disposal considerations

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not dispose of with domestic refuse.
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.
Dispose of waste product or used containers according to local regulations.

14. Transport information

ADR

UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.
(isopropanol, Hydrocarbons, C11-C12, isoalkanes, <2% aromatics)

Class : 3

Packing group : II

Classification Code : F1

Hazard Identification Number : 33

Labels : 3

Environmentally hazardous : no



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IATA

UN number : 1993

Description of the goods : Flammable liquid, n.o.s.
(isopropanol, Hydrocarbons, C11-C12, isoalkanes, <2% aromatics)

Class : 3

Packing group : II

Labels : 3

Packing instruction (cargo aircraft) : 364

Packing instruction (passenger aircraft) : 353

Packing instruction (passenger aircraft) : Y341

Environmentally hazardous : no

IMDG

UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.
(isopropanol, Hydrocarbons, C11-C12, isoalkanes, <2% aromatics)

Class : 3

Packing group : II

Labels : 3

EmS Number : F-E, S-E

Marine pollutant : no



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RID

UN number	: 1993
Description of the goods	: FLAMMABLE LIQUID, N.O.S. (,)
Class	: 3
Packing group	: II
Classification Code	: F1
Hazard Identification Number	: 33
Labels	: 3
Environmentally hazardous	: no
Other information	: No special precautions required.

15. Regulatory information

16. Other information

Further information

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