

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

FINO TRENN-SEP Separating Agent

REF

11443/ 11444

Further trade names

ISOPROPYL ALCOHOL

Product group: Alkohole
CAS No: 67-63-0
Index No: 603-117-00-0
EC No: 200-661-7
UFI: VHP0-D1Q4-8005-WAHC

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

Separating Agent

1.3. Details of the supplier of the safety data sheet

Company name: FINO GmbH
Street: Mangelsfeld 18
Place: D-97708 Bad Bocklet
Telephone: +49-97 08-90 94 20
e-mail: info@fino.com
Contact person: Joachim Mahlmeister
e-mail: info@fino.com
Responsible Department: This number can only be reached during our office hours, Monday to Friday from 8 a.m. to 5 p.m.

Telefax: +49-97 08-90 94 21

Internet: www.fino.com

Telephone: +49-97 08-90 94 20

1.4. Emergency telephone
number:

+49-89-1 92 40
POISON CENTER München
24 hour(s) 7 day(s)

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
GB CLP Regulation

Flam. Liq. 2; H225
Eye Irrit. 2; H319
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements
GB CLP Regulation
Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

Pictograms:

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical equipment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Additional advice on labelling

The product is classified and labelled according to EC directives or corresponding national laws.
Classification according to Regulation (EC) No 1272/2008 [CLP]

2.3. Other hazards

Inhalation causes narcotic effects/intoxication.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Different surfactants diluted in alcohol.

Sum formula: C₃H₈O

Molecular weight: 60,10

Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|---|--------------|----------|----------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 80-95 % |
| | 200-661-7 | 603-117-00-0 | | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|---------|---|---|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 67-63-0 | 200-661-7 | propan-2-ol; isopropyl alcohol; isopropanol | 80-95 % |
| | dermal: LD50 = 12800 mg/kg; oral: LD50 = 5050 mg/kg | | |

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Remove contaminated, saturated clothing immediately.
Protect victims from hypothermia.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water.

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

Treat according to the given symptoms.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂), Water, Foam

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂)

5.3. Advice for firefighters

No specific information.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Keep away from sources of ignition - No smoking.

For non-emergency personnel

Emergency procedures

Remove persons to safety. Remove victim out of the danger area.

The danger areas must be delimited and identified using relevant warning and safety signs.

For emergency responders

Use personal protection equipment.

The usual precautionary measures are to be adhered to when handling chemicals.

6.2. Environmental precautions

Dilute with plenty of water.

6.3. Methods and material for containment and cleaning up**Other information**

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

Wash with plenty of water.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

See protective measures under point 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Observe normal precautions when working with chemicals.

Ensure good ventilation / exhaust at the workplace.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals.

Take off immediately all contaminated clothing.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Further information on handling

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

Keep container tightly closed.

Ensure adequate ventilation of the storage area.

Hints on joint storage

No further data.

Further information on storage conditions

No special precautionary measures.

Betriebssicherheitsverordnung (BetrSichV) Highly flammable

7.3. Specific end use(s)

Separating Agent

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

Additional advice on limit values

The lists valid during the making were used as basis.

8.2. Exposure controls

Appropriate engineering controls

See section 7. No additional measures necessary.

Individual protection measures, such as personal protective equipment
Eye/face protection

Protective goggles with side protection recommendable.

Hand protection

Wear suitable gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality

and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

Skin protection

lab coat

Respiratory protection

Respiratory protection not required.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | sweetish |

Changes in the physical state

| | |
|---|----------------|
| Boiling point or initial boiling point and boiling range: | 82 °C |
| Softening point: | not applicable |
| Flash point: | 12 °C |

Flammability

| | |
|---------------|----------------|
| Solid/liquid: | not determined |
|---------------|----------------|

Explosive properties

not explosive according to EU A.14

| | |
|----------------------------|-------------|
| Lower explosion limits: | 2,0 vol. % |
| Upper explosion limits: | 12,0 vol. % |
| Auto-ignition temperature: | 425 °C |

Self-ignition temperature

| | |
|--|-------------------------|
| Solid: | --- |
| Decomposition temperature: | not determined |
| Viscosity / dynamic: | --- |
| Water solubility: | --- |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: (at 20 °C) | 43 hPa |
| Density (at 20 °C): | 0,786 g/cm ³ |
| Relative vapour density: | not determined |

9.2. Other information
Information with regard to physical hazard classes

| | |
|------------------------|-------------------|
| Sustaining combustion: | No data available |
|------------------------|-------------------|

Other safety characteristics

| | |
|-------------------|----------------|
| Solvent content: | 90,3 % |
| Solid content: | not determined |
| Evaporation rate: | not determined |

Further Information
SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable at standard application conditions.

10.3. Possibility of hazardous reactions

Oxidising agent, strong

10.4. Conditions to avoid

No special precautionary measures.

10.5. Incompatible materials

Oxidizing agent, Acids, alkalines

10.6. Hazardous decomposition products

No further information.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in GB CLP Regulation
Acute toxicity

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

| CAS No | Chemical name | | | | |
|---------|---|---------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | |
| | oral | LD50 mg/kg | 5050 | Rat | |
| | dermal | LD50 mg/kg | 12800 | Rabbit | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

Toxicological analyses are not available.

Additional information on tests

Inhalation causes narcotic effects/intoxication.

Practical experience

Liquid of 1-propanol with various additives.

11.2. Information on other hazards
Other information

No special precautionary measures.

SECTION 12: Ecological information
12.1. Toxicity

| CAS No | Chemical name | | | | | |
|---------|---|--------------|-----------|---------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | 9640 | 96 h | | |
| | Acute crustacea toxicity | EC50 mg/l | 1400 | 48 h | | |

12.2. Persistence and degradability

Excretion/elimination: well Biodegradable.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---|---------|
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | 0,05 |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

The present toxicological data do not show any hazardous properties.*

Further information

Water hazard class:

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified

List of Wastes Code - used product

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified

Contaminated packaging

Recycle sales packaging via DSD (Duales System Deutschland).

Dispose of waste according to applicable legislation.

SECTION 14: Transport information
Land transport (ADR/RID)

| | |
|---------------------------------------|--------------------------|
| 14.1. UN number or ID number: | UN 1993 |
| 14.2. UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. |

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14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



Classification code:

F1

Special Provisions:

274 601 640D

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

33

Tunnel restriction code:

D/E

Inland waterways transport (ADN)
14.1. UN number or ID number:

UN 1993

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



Classification code:

F1

Special Provisions:

274 601 640D

Limited quantity:

1 L

Excepted quantity:

E2

Marine transport (IMDG)
14.1. UN number or ID number:

UN 1993

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

EmS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number or ID number:

UN 1993

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

1 L

Passenger LQ:

Y341

Excepted quantity:

E2

| | |
|--|------|
| IATA-packing instructions - Passenger: | 353 |
| IATA-max. quantity - Passenger: | 5 L |
| IATA-packing instructions - Cargo: | 364 |
| IATA-max. quantity - Cargo: | 60 L |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

No special precautionary measures.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2004/42/EC (VOC): no classification
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information: P5c

Additional information

The product is classified and labelled according to EC directives or corresponding national laws.

Classification according to Regulation (EC) No 1272/2008 [CLP]

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

No further data.

Betriebssicherheitsverordnung (BetrSichV) Highly flammable

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

"IATA-DGR: Dangerous Goods Regulations by the ""International Air Transport Association"" (IATA)"

ICAO: International Civil Aviation Organization

"ICAO-TI: Technical Instructions by the ""International Civil Aviation Organization"" (ICAO)"

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Lig. 2: Flammable liquids, Hazard Category 2

Relevant H and EUH statements (number and full text)

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

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

Identified uses

| No | Short title | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|------------------|-----|----|----|------|-----|----|----|---------------|
| 1 | Separating Agent | - | 22 | 0 | 10 | 8a | 0 | - | 15 |

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)