

Softalind ViscoRub / Softa-Man ViscoRub

Revision date: 16.07.2020

Product code: 00056-0216

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

Softalind ViscoRub / Softa-Man ViscoRub

UFI: D2H1-TMVV-H10H-4K04

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

Alcoholic hand gel / Hand disinfectant (Gel)

1.3. Details of the supplier of the safety data sheet
Manufacturer

Company name: B. Braun Medical AG
 Street: Seesatz 17
 Place: CH-6204 Sempach
 Responsible Department: Zentrale
 Telephone: +41 (0) 58 / 258 50 00
 E-Mail: info.bbmch@bbraun.com
 Responsible for the safety data sheet: sds@gbk-ingelheim.de

Supplier

Company name: B. Braun Melsungen AG
 Street: Carl-Braun-Straße 1
 Place: D-34212 Melsungen
 Responsible Department: Zentrale Service-Bereiche / Logistik und Supply Chain
 Telephone: +49 (0) 5661 / 71-4422
 E-Mail: logistics.service@bbraun.com

1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
 In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye damage.

May cause drowsiness or dizziness.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling

n-Propanol

Signal word: Danger

Pictograms:


Hazard statements

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

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Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe vapour.
- P280 Wear eye protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P501 Dispose of contents/container to an approved waste disposal plant. .

Additional advice on labelling

Applies for those countries where this product is classified as medicinal product; as ready for use medicinal product, this product is not subject to labelling obligation according to the CE directives in these countries.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:

**Hazard statements**

H318-H336

Precautionary statements

P280-P305+P351+P338-P310-P501

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

Vapours may form explosive mixture with air.

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

Alcoholic gel

Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|---|--------------|------------------|----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 64-17-5 | Ethanol | | | < 55 % |
| | 200-578-6 | 603-002-00-5 | 01-2119457610-43 | |
| | Flam. Liq. 2, Eye Irrit. 2; H225 H319 | | | |
| 71-23-8 | n-Propanol | | | < 25 % |
| | 200-746-9 | 603-003-00-0 | 01-2119486761-29 | |
| | Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336 | | | |

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

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

Data of item 4 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities.

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

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After inhalation

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion

Drink plenty of water.
Do not induce vomiting.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.

4.2. Most important symptoms and effects, both acute and delayed

Causes serious eye damage.
May cause drowsiness or dizziness.

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

Treat symptoms.

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

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire may produce:
carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information

Keep away from sources of ignition - No smoking.
Vapours are heavier than air and spread along ground.
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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

In case of vapour formation use respirator.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling**Advice on safe handling**

Provide sufficient air exchange and/or exhaust in work rooms.
When using do not eat or drink.

Advice on protection against fire and explosion

Keep product and empty container away from heat and sources of ignition.
Do not smoke.
Take precautionary measures against static discharges.

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

Keep container tightly closed in a dry, cool and well-ventilated place.
Pay attention to anti-explosion rules.

Hints on joint storage

Incompatible with:
Oxidizing agents
Alkaline metals and earth alkaline metals.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Alcoholic hand gel / Hand disinfectant (Gel)

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

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-------------|------|-------------------|-----------|---------------|--------|
| 64-17-5 | Ethanol | 1000 | 1920 | | TWA (8 h) | WEL |
| 71-23-8 | Propan-1-ol | 200 | 500 | | TWA (8 h) | WEL |
| | | 250 | 625 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|---------|--------------------------|----------------|----------|------------------------|
| 64-17-5 | Ethanol | | | |
| | DNEL, acute | inhalation | local | 1900 mg/m ³ |
| | DNEL, long-term | oral | systemic | 343 mg/kg bw/day |
| | DNEL, long-term | dermal | systemic | 343 mg/kg bw/day |
| | DNEL, long-term | inhalation | systemic | 950 mg/m ³ |
| 71-23-8 | n-Propanol | | | |
| | Worker DNEL, long-term | dermal | systemic | 136 mg/kg bw/day |
| | Worker DNEL, long-term | inhalation | systemic | 268 mg/m ³ |
| | Worker DNEL, acute | inhalation | systemic | 1723 mg/m ³ |
| | Consumer DNEL, long-term | dermal | systemic | 81 mg/kg bw/day |
| | Consumer DNEL, long-term | inhalation | systemic | 80 mg/m ³ |
| | Consumer DNEL, acute | inhalation | systemic | 1036 mg/m ³ |
| | Consumer DNEL, long-term | oral | systemic | 61 mg/kg bw/day |

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PNEC values

| CAS No | Substance | |
|--|------------|------------|
| Environmental compartment | | Value |
| 64-17-5 | Ethanol | |
| Freshwater | | 0,96 mg/l |
| Marine water | | 0,79 mg/l |
| Freshwater sediment | | 3,6 mg/kg |
| Marine sediment | | 2,9 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 580 mg/l |
| Soil | | 0,63 mg/kg |
| 71-23-8 | n-Propanol | |
| Freshwater | | 10 mg/l |
| Marine water | | 1 mg/l |
| Freshwater sediment | | 22,8 mg/kg |
| Marine sediment | | 2,28 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 96 mg/l |
| Soil | | 2,2 mg/kg |

8.2. Exposure controls
Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Data of item 8 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities.

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with the eyes.

Eye/face protection

Safety goggles with side protection (EN 166).

Eye wash bottle with pure water (EN 15154).

Hand protection

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

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

| | |
|-----------------|----------------|
| Physical state: | Viscous |
| Colour: | Colourless |
| Odour: | Characteristic |

Test method

pH-Value: 7,9 - 8,4 (20%ig)

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Changes in the physical state

| | |
|--|-----------------------|
| Melting point: | - 114 °C *) |
| Initial boiling point and boiling range: | 78 °C *) |
| Sublimation point: | n.a. |
| Softening point: | n.d. |
| Flash point: | 21 °C DIN 51755 |
| Sustaining combustion: | Sustaining combustion |

Flammability

| | |
|--------|------|
| Solid: | n.a. |
| Gas: | n.a. |

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

| | |
|-------------------------|---------------|
| Lower explosion limits: | 3,5 vol. % *) |
| Upper explosion limits: | 15 vol. % *) |
| Ignition temperature: | 425 °C *) |

Auto-ignition temperature

| | |
|--------|------|
| Solid: | n.a. |
| Gas: | n.a. |

| | |
|----------------------------|-------------|
| Decomposition temperature: | > 700 °C *) |
|----------------------------|-------------|

Oxidizing properties

Not oxidising.

| | |
|---------------------------------|---------------------------------|
| Vapour pressure: (at 20 °C) | 59 hPa *) |
| Density (at 20 °C): | 0,854 - 0,861 g/cm ³ |
| Bulk density: | n.a. |
| Water solubility: (at 20 °C) | Miscible |

Solubility in other solvents

n.d.

| | |
|--------------------------------------|-------------------|
| Partition coefficient: | Log Pow: - 0,3 *) |
| Viscosity / dynamic: (at 25 °C) | 200 - 600 mPa·s |
| Viscosity / kinematic: (at 25 °C) | n.d. |
| Flow time: | n.d. |
| Vapour density: (at 20 °C) | 2,07 *) |
| Evaporation rate: | n.d. |
| Solvent separation test: | 0 % |
| Solvent content: | < 80 % |

9.2. Other information

*) Ethanol

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

Reactions with oxidizing agents.
 Reactions with alkali metals.
 Reactions with earth alkali metals.

10.4. Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.
 Heating can release vapours which can be ignited.

10.5. Incompatible materials

oxidizing agents
 Alkaline metals and alkaline earth metals.

10.6. Hazardous decomposition products

No hazardous decomposition products known.
 Fire may produce:
 Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.
 No toxicological data available.

| CAS No | Chemical name | | | | |
|---------|-------------------------|---------------|---------|--------|----------|
| | Exposure route | Dose | Species | Source | Method |
| 64-17-5 | Ethanol | | | | |
| | oral | LD50 mg/kg | 10470 | Rat | |
| | dermal | LD50 mg/kg | 15800 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | 30 mg/l | Rat | |
| 71-23-8 | n-Propanol | | | | |
| | oral | LD50 mg/kg | > 8000 | Rat | |
| | dermal | LD50 mg/kg | 4032 | Rabbit | |
| | inhalation (4 h) vapour | LC50 mg/l | > 33,8 | Rat | OECD 403 |

Irritation and corrosivity

Causes serious eye damage.
 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. (n-Propanol)

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.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience

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Other observations

Effects of breathing high concentrations of vapour may include: Headache, dizziness, weakness, unconsciousness.

Swallowing renders reabsorption possible.

May cause irritation of the mucous membranes.

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

SECTION 12: Ecological information**12.1. Toxicity**

Ecological data are not available.

| CAS No | Chemical name | | | | | |
|---------|--------------------------|--------------|-----------|---------|---------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64-17-5 | Ethanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | 11200 | 96 h | Fish | |
| | Acute algae toxicity | ErC50 | 275 mg/l | | Algae | |
| | Acute crustacea toxicity | EC50 mg/l | 5012 | 48 h | Daphnia magna | |
| 71-23-8 | n-Propanol | | | | | |
| | Acute fish toxicity | LC50 mg/l | 4555 | 96 h | Pimephales promelas | |
| | Acute crustacea toxicity | EC50 mg/l | 3644 | 48 h | Daphnia magna | |
| | Algae toxicity | NOEC mg/l | 1150 | 2 d | Chlorella sp. | |
| | Crustacea toxicity | NOEC mg/l | > 100 | 21 d | Daphnia magna | |

12.2. Persistence and degradability

Ethanol / n-Propanol

Readily biodegradable (to OECD criteria).

| CAS No | Chemical name | | | |
|---------|----------------------------|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 71-23-8 | n-Propanol | | | |
| | BOD in % of theoretical OD | 75 % | 20 | |
| | Readily biodegradable. | | | |

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-17-5 | Ethanol | - 0,3 |
| 71-23-8 | n-Propanol | 0,25 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|------|---------|--------|
| 64-17-5 | Ethanol | 0,66 | | |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

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12.6. Other adverse effects

Low hazard to waters.

Further information

Ecological injuries are not known or expected under normal use.

Do not flush into surface water or sanitary sewer system.

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

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

List of Wastes Code - residues/unused products

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors; hazardous waste

Contaminated packaging

Re-using the polluted packaging materials is not allowed.

Packaging that cannot be cleaned should be disposed of like the product.

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

| | |
|--|---|
| 14.1. UN number: | UN 1987 |
| 14.2. UN proper shipping name: | ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |



| | |
|--------------------------|-------------|
| Classification code: | F1 |
| Limited quantity: | 1 L / 30 kg |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|---|
| 14.1. UN number: | UN 1987 |
| 14.2. UN proper shipping name: | ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |



| | |
|----------------------|-------------|
| Classification code: | F1 |
| Limited quantity: | 1 L / 30 kg |
| Excepted quantity: | E2 |

Marine transport (IMDG)

| | |
|--|---|
| 14.1. UN number: | UN 1987 |
| 14.2. UN proper shipping name: | ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol) |
| 14.3. Transport hazard class(es): | 3 |

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14.4. Packing group:

II

Hazard label:

3



Marine pollutant:

No

Limited quantity:

1 L / 30 kg

Excepted quantity:

E2

EmS:

F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

UN 1987

14.2. UN proper shipping name:

ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol, Solution)

14.3. Transport hazard class(es):

3

14.4. Packing group:

II

Hazard label:

3



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

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC):

< 80 %

Information according to 2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

Additional information

Regulation (EC) No 648/2004 (Regulation on detergents):

-

Ingredients subject to the labelling obligation according to SCCP:

-

Regulation (EC) No 1223/2009 (Regulation on cosmetic products):

-

Ingredients subject to the labelling obligation according to SCCP:

-

National regulatory information

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Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Eye Dam. 1; H318 | Calculation method |
| STOT SE 3; H336 | Calculation method |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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