

SAFETY DATA SHEET:

SECTION Identification of the substance/mixture and of the company/undertaking

1:

- 1.1. Product identifier
Salubrin – Hand sanitizer
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture for hand disinfection
- 1.3. Details of the supplier of the safety data sheet

Company: Hardford AB
Address: N Svedengatan 30, SE-58273 LINKÖPING, SWEDEN
Telephone: +46 13-233100
E-mail: info@hardford.se

- 1.4. Emergency telephone number

Call the National Poisons Information Service 111.

SECTION Hazards identification

2:

- 2.1. Classification of the substance or mixture
Flammable liquids Category 2 Flam Liq. 2
Serious eye damage /eye irritation Category 2 Eye Irrit. 2
- 2.2. Label elements

Hazard pictogram:



Signal word(s): **Danger**

Hazard statement(s): H225 – Highly flammable liquid and vapor

H319- Causes serious eye irritation.

Precautionary statement(s):

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P501 Dispose of contents and container according to local, regional, national and international regulations.

For packages of less than 125 ml:

P102 Keep out of reach of children.

P501 Dispose of contents and container according to local, regional, national and international regulations.

2.3. Other hazards

See section 12 for the result of PBT and vPvB assessment.

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

3.2. Mixtures

Hazardous components:

Name	CAS no	EG no	Classification	% (w/w)
Ethanol	64-17-5	200-578-6	Flam. Liq. 2 H225 Eye Irrit 2 H319	50-70
Isopropanol	67-63-0	200-661-7	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE3 H336	5-10

SECTION First aid measures**4:**

4.1. Description of first aid measures

First Aid Measures

Remove the injured from contaminated environment.

Inhalation:

In case of inhalation, remove the injured to fresh air, provide oxygen or artificial respiration in case of breathing difficulties. Seek medical attention.

Skin contact:

The product is intended to be used on hands.

In case of unintended contact with skin contact, thoroughly rise the skin with warm water.

Eyes contact:

In case of eye contact, rinse immediately with lukewarm water. In case of pain, redness, lacrimation, seek medical attention immediately.

Ingestion:

In case of ingestion, do not induce vomiting. Seek medical attention to determine the method of treatment

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

Ingestion: Large amounts may irritate mouth and throat and possibly induce vomiting

Inhalation: May irritate nose and throat.

Skin contact: May irritate the skin for large amounts and long exposure

Eye contact: Irritates the eyes

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

See First aid measures above. Eyewash should be available in the workplace.

SECTION Firefighting measures**5:**

5.1. Extinguishing media

Extinguishing powder, Carbon dioxide, water

5.2. Special hazards arising from the substance or mixture.

Attention: flammable vapours may be formed

5.3. Advice for firefighters

Remove unauthorized personnel. Use respiratory protection if the ventilation is not adequate. Keep the spilt, not burning product away from sources of ignition. Avoid inhalation of fumes.

SECTION Accidental release measures**6:**

6.1. Personal precautions, protective equipment and emergency procedures

Individual protection measures: protective gloves, protective glasses, mask with appropriate canister

Block and close the access to the hazardous area. Provide safety zone. Keep away from open fire.

6.2. Environmental precautions

Secure sink basins; avoid direct contact with the released substance; eliminate the leakage if possible (cut off the fluid flow, seal the broken package, place in tight protective packaging)

6.3. Methods and material for containment and cleaning up

in case of small spill, collect using not flammable absorbent and put into tight container. Large spill – embank the place with fluid and pump out to appropriate container.

SECTION Handling and storage

7:

7.1. Precautions for safe handling

Make sure the ventilation is adequate. Keep away from sources of ignition, open flame and sparks

7.2. Conditions for safe storage, including any incompatibilities

Fluid of usable concentration should be stored in original, tight packages in dry, cool place. Packages should be kept in vertical position.

7.3. Specific end use(s)

Mixture destined for:
disinfection of hands

SECTION Exposure controls/personal protection

8:

8.1. Control parameters			
Ingredient:	CAS No	Standard	Value
Isopropanol	67-63-0	WEL TWA	999 mg/m ³ 400 ppm
		WEL STEL	1250 mg/m ³ 500 ppm
Ethanol	64-17-5	WEL TWA	1920 mg/m ³ 1000 ppm
		WEL STEL	5760 mg/m ³ 3000 ppm

8.2. Exposure controls

Respiratory ways protection: No special recommendation

Hands protection: No special recommendation

Eyes and face protection: Avoid contact with eyes

Skin protection: No special recommendation

SECTION Physical and chemical properties**9:**

9.1. Information on basic physical and chemical properties

Physical form, colour, odour

Colourless, clear gel with characteristic odour.

Solubility in water

Good. Mixes with water in all concentrations.

pH (20C)

7,3-8,2

Point of

- boiling – not determined
- melting – not determined
- ignition – not determined
- spontaneous ignition – not determined

Flammability – Flash point 21° C

Explosive properties – not determined

Oxidizing properties – not determined

Vapour pressure – not determined

Relative density : 0.85 – 0.91 g/cm³ in 20°C

Viscosity : not determined

Solubility

- in water – very good, no limits

- in organic solvents – not determined

Distribution coefficient n-octanol/ water - not determined

9.2. Other information

No data

SECTION Stability and reactivity

10:

10.1. Reactivity

Very Flammable

10.2. Chemical stability

The product is stable under normal conditions of storing and warehousing.

10.3. Possibility of hazardous reactions

Risk of ignition

10.4. Conditions to avoid

High temperatures, open flame, sparks

10.5. Incompatible materials

No data

10.6. Hazardous decomposition products

Forms oxides of carbon during combustion

SECTION Toxicological information

11:

11.1. Information on toxicological effects

No data available. The evaluation based on the ingredients included in the mixture.

Ingestion: Large amounts may irritate mouth and throat and possibly induce vomiting

Inhalation: May irritate nose and throat.

Skin contact: May irritate the skin for large amounts and long exposure

Eye contact: Irritates the eyes

<u>Ethanol</u>	64-17-5	<i>DL₁₀₀ (for adult) 7-8 g/ kg of body weight</i> <i>LD_{LO} (orally - man) 6000 mg/kg body weight</i> <i>LD_{LO} (orally - rat) 7060 mg/kg body weight</i> <i>LC₅₀ (rat, inhalation) 38400 mg/m³ (10h)</i> <i>LD₅₀ (rabbit, skin) >20000 mg/kg body weight</i> <i>LC₅₀ (fish) >10000 mg/l</i>
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Local influence:

Inhalation of vapours and aerosols: Highly concentrated vapour and liquefied ethyl alcohol (ingestion) causes: headaches and vertigos, psychomotor agitation, motor coordination disorder. shortening of breath and cough. Alcohol is absorbed through lungs and causes the same symptoms as when ingested. Vapours of alcohol in concentrations below 5% are absorbed through lungs very easily.

Skin contact: Intense irritation, desiccation and degreasing. Blisters may appear.

Eyes contact: Intense irritation, pain and redness of conjunctivas and symptoms of burning.

Ingestion: Ingestion of large dose of alcohol causes violent dehydration of tissue of burning nature, psychical disorders, waddling walk and gibberish talk. In hazardous cases, loss of consciousness (convulsions – rare), breathing disorders, cardiac activity disorders; tachycardia, drop or increase of blood pressure, arrhythmia, ventricle fibrillation, cardiac arrest.

<u>isopropanol</u>	67-63-0	<i>LD₅₀ (orally) >2000 mg/kg</i> <i>LD₅₀ (skin) >2000 mg/kg</i> <i>LC₅₀ (inhalation, probably) >5mg/l</i>
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Eyes irritation: irritating

Skin irritation: does not irritate

Skin sensitization: does not sensitize

Influence on human: repeated contact may lead to nausea, vertigos

SECTION Ecological information

12:

12.1. Toxicity

No available data for the mixture, for main constituent ethanol:
LC50(96h),fisk (mg/L): 13000 (Ethanol)
EC50(48h),daphnia (mg/L): > 10000 (Ethanol)
EC50(72h),alger (mg/L): 275 (Ethanol)

12.2. Persistence and degradability

Based on the main constituents, the product is readily biodegradable

12.3. Bioaccumulative potential

Does not have tendency to bioaccumulation

12.4. Mobility in soil

The product is water soluble and thus mobile in soil.

12.5. Results of PBT and vPvB assessment

Not PBT /vPvB

12.6. Other adverse effects

No data

SECTION Disposal considerations

13:

13.1. Waste treatment methods

The best way to manage the waste is to transport it to authorized recovery or incineration plant (render harmless).

It is recommended that companies authorized to handle dangerous waste handle spill or waste.

All practices regarding waste management must be consistent with all local laws and decrees.

Do not throw away to sewerage, ground, water tanks.

Empty containers are sorted as plastic.

SECTION Transport information

14:

14.1. UN number

- 1987
- 14.2. UN proper shipping name
Alcohols, N.O.S
- 14.3. Transport hazard class(es)
Class 3
- 14.4. Packing group
Packing Group II
- 14.5. Environmental hazards
Not a marine pollutant
- 14.6. Special precautions for user
EMS: F-E, S-D
Danger number: 33
Tunnel restriction code: (D/E)
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable
- 14.8 Other transport information
Limited Quantity (LQ): 1 L

SECTION Regulatory information

15:

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Label elements according to regulation 2008/1272/EC

Hazard pictogram:



Signal word(s): Danger
Hazard statement(s): H225 – Highly flammable liquid and vapor

This product is subjected to EEC Regulation no 1451/2007- Release of Biocide Products in the market.

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

Commission Regulation nr. 1907/2006/EC with all amendments.

Commission Regulation nr. 1272/2008/EC with all amendments.

15.2. Chemical safety assessment

Not performed

SECTION Other information

16:

Hazard statements used in item 3 of the MSDS

H225 Highly flammable liquid and vapor

H315 Causes skin irritation.

H319 Causes serious eye irritation

H332 Harmful if inhaled

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Specific use

Mixture destined for:

desinfection of hands

The above information is based on the current knowledge and relate to the product in the form in which it is used. It is presented in order to consider safety requirements and not to guarantee particular properties of the product. When the application conditions are beyond the manufacturer control, responsibility for safe use is vested in the user.

This Material Safety Data Sheet is prepared based on the valid regulations on chemical substances and mixtures. This document is issued by the company. Use of information contained herein for purposes other than those specified by the regulations on chemical substances and preparations requires the manufacturer approval.



Product Name: Salubrin Hand Sanitizer

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