

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier

Name: Sterisol Ethanol Hand Disinfectant
Article number: 7106CH

1.2 Relevant identified uses of the substance or mixture and uses advised against
Hand disinfection.

1.3 Details of the supplier of the safety data sheet

Address: Sterisol AB, P. O. Box 149, SE-592 23 Vadstena, Sweden
Phone: +46 143 768 68
e-mail: jan.eklund@sterisol.se

1.4 Emergency telephone number

Swedish Poisons Information Centre: +46 8 331 231

SECTION 2: HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture
Classification according to CLP-regulation 1272/2008/EC

Flam. Liq. 2 H225 Highly flammable liquid and vapour
Eye Irrit. 2 H319 Causes serious eye irritation

2.2 Label elements

Label according to CLP 1272/2008/EC:



Danger

H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
P210* Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233**/*** Keep container tightly closed
P370+P378* In case of fire: Use water spray or foam for extinction
P305+P351+P338* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337-P313* If eye irritation persists: Get medical advice/attention.

*Packages smaller than 125 ml does not need the statement.

** Only for bottles

2.3 Other hazards

Allow hands to dry thoroughly before touching anything because of the risk of ignition due to static electricity. Avoid contact with eyes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
3.2 Mixtures

Classification according to CLP 1272/2008/EG Annex VI Table 3.1:

| Substance | Concentration % | Hazard Class and Category Code(s) | Hazard Statement Code(s) |
|--|-----------------|---|------------------------------|
| Ethanol CAS-No 64-17-5 EG-No 200-578-6 Index-No 603-002-00-5 REACH-No | 70 | Flam. Liq. 2 Eye Irrit. 2 | H225 H319 |
| Isopropanol CAS-No 67-63-0 EG-No 200-661-7 Index-No 603-117-00-0 REACH-No | 10 | Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 | H225 H319 H336 |
| tert-Butyl Alcohol CAS-No 75-65-0 EG-No 200-889-7 Index-No 603-005-00-1 REACH-No | 0.1 - 1 | Flam. Liq. 2 Acute Tox. 4 (*) Eye Irritant 2 STOT SE 3 | H225 H332 H319 H335 |
| 2-Amino-2-methylpropanol CAS-No 124-68-5 EG-No 204-709-8 Index-No 603-070-00-6 REACH-No | < 0,1 | Eye Irrit. 2 Skin Irrit. 2 Aquatic Chronic 3 | H319 H315 H412 |

| | | |
|-----------------|------------------|---------|
| Aqua | EG-No 231-791-2 | 10 – 20 |
| Glycerin | EG-No 200-289-5 | 1 – 2 |
| Carbomer | CAS-No 9003-01-4 | 0.1 – 1 |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If dizziness or nausea occurs, seek fresh air and rest.

Ingestion: Rinse the mouth and drink some water. DO NOT induce vomiting. Seek medical treatment if a large amount has been swallowed.

Contact to skin: The product is intended for the skin.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2 Most important symptoms and effects, both acute and delayed

If swallowed: Pain in the mouth and throat, nausea, vomiting, dizziness, headache

Inhalation by prolonged exposure: Fatigue, dizziness, nausea and vomiting.

Eye contact: Transient irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment for solvent poisoning.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguish preferably with powder extinguisher, alcohol resistant foam or water spray.

5.2 Special hazards arising from the substance or mixture

Highly flammable. Vapours may already at temperatures below room temperature form an explosive mixture with air.

5.3 Advice for fire-fighters

Move and/or cool down with water if packaging are close to fire.

SECTION 6:

6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources.

6.2 Environmental precautions

Avoid discharge to drainage and watercourse.

6.3 Methods and material for containment and cleaning up

Small spillage should be dried up with damp cloth. Large discharges should be collected with absorbent material. The product is water soluble.

6.4 Reference to other sections

See Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Smoking, open flames and other sources of ignition are prohibited.

7.2 Conditions for safe storage, including any incompatibilities

The product should be stored away from sources of ignition, at 5 – 25 ° C. This flammable product shall not be stored together with oxidizing and explosives material. Specific provisions and quantity limitations may occur. Contact local rescue services.

7.3 Specific end use(s)

Full pallet must not be double stacked.

SECTION 8: EXPOSURE CONTROLS/PESONAL PROCECTION

8.1 Control parameters

| | |
|------------------------|---|
| Ethanol | TLV (SE), Level limit 500 ppm, 1.000 mg/m ³ |
| | TLV (SE), Short-term value: 1.000 ppm, 1.900 mg/m ³ |
| | UK OEL, Long-term exposure limit: 1.000 ppm, 1.920 mg.m ⁻³ |
| Isopropanol | TLV (SE), Level limit 150 ppm, 350 mg/m ³ |
| | TLV (SE), Short-term value: 250 ppm, 600 mg/m ³ |
| | UK OEL, Long-term exposure limit: 400 ppm, 999 mg.m ⁻³ |
| t-Butyl Alcohol | UK OEL, Short-term exposure limit: 500 ppm, 1.250 mg.m ⁻³ |
| | TLV (SE), Level limit 50 ppm, 150 mg/m ³ |
| | TLV (SE), Short-term value: 75 ppm, 250 mg/m ³ |
| | TLV (SE), TLV/Skin: Can be absorbed through the skin. |
| | UK OEL, Long-term exposure limit: 100 ppm, 308 mg.m ⁻³ |
| | UK OEL, Short-term exposure limit: 150 ppm, 462 mg.m ⁻³ |

8.2 Exposure controls

Avoid contact with eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical land chemical properties

| | |
|--|-----------------------------|
| Appearance: | Colourless viscous liquid |
| Odour: | A distinct odour of ethanol |
| Odour threshold: | To be determined |
| pH-value: | 6.8 – 7.3 |
| Melting point/freezing point: | To be determined |
| Initial boiling point and boiling range: | Approx. 80° C |
| Flash point: | 20° C (IP 170-88) |
| Evaporation rate: | To be determined |
| Flammability (solid, gas): | To be determined |
| Upper/lower flammability or explosive limits: | To be determined |

| | |
|--|--|
| Vapour pressure: | To be determined |
| Vapour density: | To be determined |
| Relative density: | 0.84 – 0.86 (g/cm ³) |
| Solubility(ies): | Soluble in water |
| Partition coefficient: n-octanol/water: | Not applicable for mixtures |
| Auto-ignition temperature: | To be determined |
| Decomposition temperature: | To be determined |
| Viscosity: | 100 - 500 cP |
| Explosive properties: | Formation of an explosive air/vapour mixture is possible |
| Oxidising properties: | Non-oxidizing |
| 9.2 Other information | No additional information is available. |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Formation of an explosive air/vapour mixture is possible.

10.2 Chemical stability

The product is stable during normal handling.

10.3 Possibility of hazardous reactions

No hazardous reactions when used under normal conditions.

10.4 Conditions to avoid

Heat and sources of ignition.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral Pain in the mouth and throat, nausea, vomiting, dizziness, headache and risk of loss of consciousness.

Inhalation Dizziness, headache, may cause slow reaction.

Skin Intended for skin.

Irritation

Eye Eye contact causes pain. Fumes can be irritating.

Skin corrosion

Not applicable

Sensitisation

Sensitisation of alcohol is extremely rare.

Repeated dose toxicity

When used as recommended, there is no risk.

Carcinogenicity

When used as recommended, there is no risk.

Mutagenicity

When used as recommended, there is no risk.

Reproductive toxicity

When used as recommended, there is no risk.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ethanol

Acute toxicity – Fish LC50 8 150 mg/l (Leuciscus idus melanotus; 48 h)

LC50 1 100 mg/l (Bleak; 96 h)

Acute toxicity – Daphnia EC50 9 268 – 14 221 mg/l (Daphnia magna; 48 h)

Acute toxicity – Alger EC0 5 000 mg/l (Scenedesmus quadricauda; 168 h)

Acute toxicity – Bacteria EC0 6 500 mg/l (Pseudomonas putida; 16 h)

Isopropanol

Acute toxicity – Fish LC50 4 200 mg/l (Rasbora heteromorpha; 96 h)

Acute toxicity – Daphnia EC50 13 299 mg/l (Daphnia magna; 48 h)

2-Amino-2-methylpropanol is classified as harmful to aquatic organisms. As the material is included with < 0,1 % the risk of possible harm is considered as very small.

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Do not accumulate.

12.4 Mobility in soil

Soluble in water. Evaporates rapidly.

12.5 Results of PBT- and vPvB-assessment

Contains no substances that are considered persistent, bio accumulative.

12.6 Other adverse effects

The preparation has been assessed under existing legislation and is classified as not environmentally hazardous.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Residual products are to be treated as hazardous waste. Empty bottles are rinsed thoroughly with water. Plastic bag, bottle, cardboard and corrugated packaging can be recovered through recycling. Provide for disposal in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

General: "Limited quantity" when transported by car, train and boat. Dangerous goods when transported by air. EmS for transport by boat: F-E, S-D

14.1 UN-number

1987

14.2 UN proper shipping name

ALCOHOLS, N.O.S. (ETHYL ALCOHOL, ISOPROPYL ALCOHOL)

14.3 Transport hazard class(es)

3

14.4 Packing group

II

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-code

Not applicable

Label



SECTION 15: REGULATORY INFORMATION

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

Hand disinfectant for hygienic hand disinfectant are classified as biocide product according to Directive 98/8/EC – PT1.

15.2 Chemical safety assessment

Chemical safety assessment is not required by regulations.

SECTION 16: OTHER INFORMATION

| | | |
|--------------------------|----------|---|
| Abbreviations SECTION 8 | TLV | Threshold Limit Value |
| Abbreviations SECTION 12 | LC50 | Letal concentration 50 % |
| | EC50 | Effective concentration 50 % |
| | PBT | Persistent Bio-accumulative and Toxic |
| | vPvB | Very Persistent and very Bio-accumulative. |
| Abbreviations SECTION 14 | EmS | Emergency Procedures for Ships Carrying Dangerous Goods |
| | F-E, S-D | Fire Schedule, Spillage Schedule |

Explanations to Hazard statements in SECTION 3.2:

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H412 Harmful to aquatic life with long lasting effects

Last update: Sections 1.1 Name and article number, Section 10.2 Chemical stability
