

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Date: 25.03.2020

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

1.1 Product identifier:

WHO recommended hand sanitiser formulation

Intended use

To rapidly and effectively inactivate a wide array of potentially harmful microorganisms on hands

1.2 Details of the supplier of the safety data sheet:

SPECIFIC Project
Swansea University.
Singleton Park
Swansea.
SA2 8PP

2. Hazards identification

2.1 Classification of the substance or mixture:

Physical hazards: Highly flammable liquid and vapour, H225
Health hazards: Causes eye irritation, H320
Environmental hazards: Not classified

2.2 Label elements

Pictogram



Hazard statement(s)

H225 Highly flammable liquid and vapour

H320 Causes 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

P301+P313 IF SWALLOWED: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

Hazardous material:

Ethanol 80%

Also contains:

Hydrogen peroxide

Glycerol

Aqua

4. First aid measures

4.1 Description of first aid measures

General advice

Get medical attention if any discomfort continues

If inhaled

Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

4.2 Most important symptoms and effects, both acute and delayed

Skin Contact: No symptoms.

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Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: Drowsiness or mental confusion may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

5. Firefighting measures

5.1 Extinguishing media

Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes of carbon dioxide.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2 Environmental precautions

Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.

6.3 Methods and materials for containment and cleaning up

Absorb into dry earth or sand. Mix with sand or vermiculite.

7. Handling and storage

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid contact with eyes.

Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

No data available

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8. Exposure controls/personal protection

8.1 Control parameters

Ingredient comments: None

8.2 Exposure controls

Appropriate engineering controls

Ensure there is sufficient ventilation of the area.

Personal protective equipment

Eye/face protection

Not required normally but wear eye protection if you are conducting an operation where there is a risk of this product getting in the eyes.

Skin protection

Not relevant

Body protection

Not relevant

Respiratory protection

Not relevant

9. Physical and chemical properties

9.1 Information on basic and physical and chemical properties

- a. Appearance: Liquid
- b. Colour: Colourless
- c. Odour: Characteristic
- d. Odour Threshold: no data available
- e. pH: no data available
- f. Melting point range: no data available
- g. Initial boiling point: no data available
- h. Flash Point: 19°C
- i. Evaporation rate: no data available
- j. Flammability: no data available
- k. Upper/lower flammability or explosive limits: no data available
- l. Vapour pressure: no data available
- m. Vapour density: no data available
- n. Relative density: no data available

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- o. Water solubility: no data available
- p. Partition coefficient: no data available
- q. Autoignition: no data available
- r. Decomposition: no data available
- s. Viscosity: no data available
- t. Explosive properties: no data available
- u. Oxidizing properties: Does not meet the criteria for classification as oxidising.

9.2 Other safety information

No data available

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6 Hazardous decomposition products

In combustion emits toxic fumes of carbon dioxide.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/eye irritation

Highly irritating. OECD 438

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Respiratory or skin sensitization

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Does not contain any substances known to be mutagenic.

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

Based on available data the classification criteria are not met.

12. Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

Biodegradable

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Volatile. Soluble in water

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

No data available

13. Disposal Consideration

13.1 Waste treatment methods

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General Information: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport Information

14.1 UN number

UN 1987

14.2 UN proper shipping name

ALCOHOLS, N.O.S. (ETHANOL)

14.3 Transport hazard class(es)

Class 3

14.4 Packaging group

Group III

14.5 Environmental hazards

Not environmentally hazardous

14.6 Special precautions for user

No special precautions

15. Regulatory Information

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

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Full text of H-statements referred to under Sections 2 and 3.

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Disclaimer

This information is only specific to materials designated and may not be valid for such material used in combination with any other materials. The information provided is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the

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user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.