

# SAFETY DATA SHEET

## 1. Identification of Product

### Product Identifier

Product Name: **Hand & Surface Sanitiser (75% IPA min)**  
Product Code: XS101385  
CAS Number: N/A  
MFCD Number: N/A  
EINECS: N/A

Relevant Identified Uses of Substance or Mixture and Uses Advised Against  
Research and Development use

### Supplier Details of the Safety Data Sheet

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## 2. Hazards Identification

### Classification of the Substance or Mixture

Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Flammable liquids (Category 2)

### Label Elements



Signal Word: Danger

### Hazard Statements

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

### Precautionary Statements

P102 - Keep out of reach of children.  
P273 - Avoid release to the environment.  
P501 - Dispose of contents/ container to an approved waste disposal plant.  
P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 - Do NOT induce vomiting.  
P305+ P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

### Other Hazards

No information available.

## 3. Composition/Information on Ingredients

### Substances

	Assay:	CAS number:	
<u>Mixtures</u>			
Concentration	Product Name	CAS number:	EC/EINECS:
75%	Isopropyl alcohol	67-63-0	200-661-7
1.5%	Glycerol	56-81-5	200-289-5
0.5%	Hydrogen peroxide solution	7722-84-1	231-765-0

## 4. First Aid Measures

### Description of First Aid Measures

*Eye Contact* Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

*Ingestion* IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

*Inhalation* IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

### Most Important Symptoms and Effects

*Skin Contact* May cause mild to moderate skin irritation, drying, redness and scaling. Allergic reactions may occur. Material may be absorbed through the skin.

*Eyes Contact* May cause tearing, stinging and redness.

*Inhalation* May cause respiratory irritation. Large quantities may be harmful if inhaled.

*Ingestion* May cause digestive tract irritation if ingested.

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## Indication of any Immediate Medical Attention

No additional measures required.

## 5. Fire Fighting Measures

### Extinguishing Media

*Suitable* Carbon dioxide.  
Dry chemical powder or foam.  
Sand.

*Unsuitable* Water.

### Special Hazards Arising from the Substance or mixture

In combustion emits carbon oxides.

Combustible liquid.

### Advice for Fire Fighters

Wear self-contained breathing apparatus.  
Wear protective clothing to prevent contact with skin and eyes.  
Use water spray to cool unopened containers.

## 6. Accidental Released Measures

### Personal Precautions

Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

### Environmental Precautions

Do not discharge into drains or rivers.

Discharge into the environment must be avoided.

Contain spillage with bunds.

### Methods & Materials

Mix with sand or vermiculite.

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 7. Handling and Storage

### Personal Precautions

*Safe Handling* Ensure there is sufficient ventilation of the area.

*Protection against* Do not smoke when using this product.

*explosions and fires* Keep away from sources of ignition - No smoking.

Take measures to prevent the build-up of electrostatic charge.

### Conditions for Safe Storage, Including any Incompatibilities

*Managing storage risks* Store in a cool, well-ventilated area.

Keep container tightly closed.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

*Storage controls* Do not store in conditions of high (or highly fluctuating) temperature.

*Maintaining integrity* Keep container tightly closed.

Hygroscopic - store under an dry inert atmosphere.

*Other advice*

Store in a well-ventilated place.

## 8. Exposure Controls/Personal Protection

### Control Parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Isopropyl alcohol	67-63-0	STEL	500 ppm	UK. EH40 WEL - Workplace Exposure Limits
		TWA	1,250 mg/m <sup>3</sup> 400 ppm	
Glycerol	56-81-5		999 mg/m <sup>3</sup>	UK. EH40 WEL - Workplace Exposure Limits
		No occupational exposure limit values.		

## 9. Physical and Chemical Properties

### Physical and Chemical Properties

Molecular formula: C<sub>3</sub> H<sub>8</sub> O<sub>3</sub> (Glycerol)

Molecular weight: 92.093 (Glycerol)

### Information on basic physical and chemical properties

a) Appearance: Clear colourless liquid (Glycerol)

b) Odour: Odourless (Glycerol)

c) Odour threshold: No data

d) pH: No data

e) Melting point/freezing point: 20°C (Glycerol)

-26°C (Hydrogen peroxide)

-89.5°C (Isopropyl alcohol)

f) Initial boiling point and boiling range: 290°C (Glycerol)

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g) Flash point:	107°C (Hydrogen peroxide) 82°C (Isopropyl alcohol) 193°C (Glycerol)
h) Evaporation rate:	12.0°C - closed cup (Isopropyl alcohol) 3.0 (Isopropyl alcohol)
i) Flammability (solid, gas):	No data.
j) Upper/lower flammability or explosive limits:	Upper explosion limit: No data (Glycerol) Lower explosion limit: 1.1%(V) (Glycerol) Upper explosion limit: 12.7%(V) (Isopropyl alcohol) Lower explosion limit: 2%(V) (Isopropyl alcohol)
k) Vapour pressure:	0.0025 mmHg @ ca.50 °C (Glycerol) 43.2 hPa @ 20.0 °C (Isopropyl alcohol) 58.7 hPa @ 25.0 °C (Isopropyl alcohol)
l) Vapour density:	3.17 - (Air = 1.0) (Glycerol)
m) Relative density:	1.261 g/cm <sup>3</sup> @ 20°C (Glycerol) 1.13g/cm <sup>3</sup> @ 20°C (Hydrogen peroxide) 0.785 g/mL at 25°C (Isopropyl alcohol)
n) Water solubility:	Miscible.
o) Partition coefficient: n-octanol/ water:	No data (Glycerol) log Pow: 0.05 (Isopropyl alcohol)
p) Auto-ignition temperature:	400°C (Glycerol) 425.0°C (Isopropyl alcohol)
q) Decomposition temperature:	No data.
r) Viscosity:	No data.
s) Explosive properties:	No data.
t) Oxidizing properties:	No data.
<u>Other Information</u>	
Specific Gravity:	0.866
% Volatile:	50-80 %
Relative vapour density:	No data
Surface tension:	20.8 mN/m at 25.0 °C (Isopropyl alcohol)
<b>10. Stability and Reactivity</b>	
<u>Reactivity</u> No unusual reactivity.	
<u>Stability</u> Stable under normal conditions. Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.	
<u>Possibility of Hazardous Reactions</u> No hazardous reactions known.	
<u>Conditions to avoid</u> Do not expose material to any source of ignition. Avoid moist atmosphere. Extremes of temperature and direct sunlight.	
<u>Incompatible Materials</u> Acids. Aldehydes. Alkalis. Amines. Ethylene oxide. Halogenated hydrocarbons. Halogens. Isocyanates. Strong oxidising agents. Aluminium. Acid anhydrides	
<u>Hazardous Decomposition Products</u> In combustion emits carbon oxides.	
<b>11. Toxicology Information</b>	
<u>Information</u>	
<i>Acute toxicity:</i>	Glycerol LD50 Oral - rat - 12,600 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair. LD50 Dermal - rabbit - > 10g/kg Isopropyl alcohol: LD50 Oral - rat - 5,045 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex).

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	Behavioral: Somnolence (general depressed activity). LC50 Inhalation - rat - 8 h - 16000 ppm LD50 Dermal - rabbit - 12,800 mg/kg
<i>Skin corrosion/irritation:</i>	Isopropyl alcohol: Skin - rabbit Result: Mild skin irritation
<i>Serious eye damage:</i>	Isopropyl alcohol: Eyes - rabbit Result: Eye irritation - 24 h
<i>Respiratory or skin Sensitisation:</i>	Glycerol: No information available
<i>Germ cell mutagenicity:</i>	Glycerol: No information available
<i>Carcinogenicity:</i>	Glycerol: No information available
<i>Tumorigenic:</i>	Equivocal tumorigenic agent by RTECS criteria.
<i>Gastrointestinal:</i>	Tumours. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Glycerol) Isopropyl alcohol: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)
<i>Reproductive toxicity:</i>	Not known.
<i>Aspiration hazard:</i>	Not known.
<i>Additional</i>	
<i>Isopropyl alcohol</i>	
RTECS: NT8050000	
Kidney - Irregularities - Based on Human Evidence	
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
<b>12. Ecological Information</b>	
<u>Toxicity</u>	
<i>Isopropyl alcohol</i>	
Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 h
<i>Glycerol</i>	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 51 - 57 ml/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - >500.00 mg/l - 24 h
Toxicity to algae	Not listed
<u>Persistence and Degradability</u>	
<i>Glycerol</i>	
Biodegradability Result:	No information available
<u>Bio-Accumulative Potential</u>	
<i>Isopropyl alcohol</i>	
No bioaccumulation is to be expected (log Pow <= 4).	
<u>Mobility in Soil</u>	
Not known.	
<u>Results of PBT &amp; PvB Assessment</u>	
Not known.	
<u>Other Adverse Effects</u>	
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.	
<b>13. Exposure Controls/Personal Protection</b>	
<u>Waste Treatment Methods</u>	
<i>Disposal operations</i>	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
<i>Disposal of packaging</i>	Disposal must be made according to official regulations.

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## 14. Transport Information

### Air (ICAO)

1. UN Number: 1219
2. UN Proper shipping name: Isopropanol solution.
3. Transport hazard class(es): 3
4. Packing group: II
5. Environmental hazards: No.
6. Special precautions for user: Not applicable.
7. Transport in bulk: Not applicable.

### Road (ADR)

1. UN Number: 1219
2. UN Proper shipping name: Isopropanol solution.
3. Transport hazard class(es): 3
4. Packing group: II
5. Environmental hazards: Yes.
6. Special precautions for user: Not applicable.
7. Transport in bulk: Not applicable.

### Sea (IMDG)

1. UN Number: 1219
2. UN Proper shipping name: Isopropanol solution.
3. Transport hazard class(es): 3
4. Packing group: II
5. Environmental hazards: Marine pollutant: No
6. Special precautions for user: Not applicable.
7. Transport in bulk: Not applicable.

## 15. Safety, Health and Environmental Regulations

### Safety, Health and Environmental Regulations:

Product is not subject to any additional regulations.

### Safety Assessment

No chemical Safety Assessment

## 16. Other Information

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

RID: Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

Associated Risk Phrases According to European Directives 67/548/EEC

R10	Flammable
R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness

### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and should only be used as a guide. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them. This information is furnished without warranty and any use of the product not in conformance with this safety data sheet, or in combination with any other product or process is the responsibility of the user.