



MATERIAL SAFETY DATA SHEET

70% IPA Antiseptic Disinfectant

MSDS DATE: 09/04/2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 70% IPA Antiseptic Disinfectant
SYNONYMS: Blend of Isopropyl Alcohol & Water

PRODUCT CODES:

DISTRIBUTOR: Hydro-X

ADDRESS: Manor Drive
Outgang Lane
Dinnington
S25 3QU

EMERGENCY PHONE: +44 (0)1909 666708

1.2 PRODUCT USE: Alcoholic Hand Rub

SECTION 1 NOTES:

SECTION 2: HAZARD IDENTIFICATION

2.1 INGREDIENT:	CAS NO.	EC Number	% Wt	Classification
Isopropyl Alcohol (Propan-2-ol)	67-63-0	200-661-7	>= 70 (Volume)	Flammable Liquid, Hazard Category 2 - H225; Eye Dam/ Irrit. 2A

2.2 Label Elements in accordance with EC N0 1272/2008



GHS classification of the substance/mixture Signal Word (s) DANGER H225 Highly flammable liquid and vapour

Hazard Statements

H225, Flammable liquid and vapour.

Hydro-X

Precautionary Statements

P102 - Keep out of the reach of children

P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P233 - Keep container tightly Closed

P262 - Do not get in eyes, on skin, or on clothing.

P403+ 0235 - Store in a well ventilated place. Keep Cool

SECTION 3: Composition/ Information on Ingredients

3.1 INGREDIENT:	CAS NO.	EC Number	% Wt	Classification
Isopropyl Alcohol (Propan-2-ol)	67-63-0	200-661-7	>= 70 (Volume)	Flammable Liquid, Hazard Category 2 - H225; Eye Dam/ Irrit. 2A
Aqua (Water)	7732-18-5	231-791-2	>= 20	Not Classified

SECTION 3 NOTES

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove from exposure area to fresh air. Obtain medical advice if irritation persists.

Ingestion Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

Skin Contact Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Eye Contact Flush with plenty of water and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Ingestion May cause light irritation to linings of the mouth, throat & gastrointestinal tract

Eye Contact Causes Eye Irritation

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available.

SECTION 4 NOTES:



SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: CO₂, Dry Powder or Foam

5.2 Special hazards arising from the product

Flammable- Liquid & Vapour

Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed: carbon monoxide (CO) and carbon dioxide (CO₂)

5.3 Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2 Environmental Precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3 Methods and material for containment and cleaning up.

Remove ignition sources. Ensure adequate ventilation. Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Clean preferably with a detergent, do not use solvents.

6.4 Reference to other sections

No additional data available.

SECTION 6 NOTES:



MATERIAL SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Requirements relating to storage premises apply to all facilities where the substance is handled.

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention:

Handle in well-ventilated areas. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits. Never inhale this substance.

Prevent the accumulation of electrostatic charges with connections to earth. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used. Never open the packages under pressure. Handle empty containers with care due to residual flammable vapours.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

Packaging

Always keep in packaging made of an identical material to the original.

SECTION 7 NOTES:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
No additional data available.



8.2 Exposure controls

Protective Equipment

Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Not necessary in adequate ventilation of working area. Avoid inhalation of vapours.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties: - Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes Before handling, wear safety goggles in accordance with standard EN166.
Other Protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.
Personal Protection	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before reusing. Ensure that there is adequate ventilation, especially in confined areas. Skin Protection Wear protective clothing to avoid all skin contact.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

SECTION 8 NOTES:

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties
Appearance	Clear Gel
Colour	Colourless
Odour	Characteristic
Relative Density (g/cm ³)	0.87
Flash Point (°C)	19
Refractive Index	Not Known
Melting Point (°C)	88
Boiling Point (°C)	82
Vapour Pressure	Not Known
Solubility in Water @20°C	Soluble in water.
Auto-ignition temperature (°C)	No additional data available.

Section 9 Notes

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal temperature conditions and recommended use.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5 Incompatible materials

No additional data available.

10.6 Hazardous Decomposition Products

The thermal decomposition may release/form: - carbon monoxide (CO) and carbon dioxide (CO₂)

SECTION 10 NOTES:

Hydro-X

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	HYDROCARBONS Oral route: LD50 = 800 mg/kg Dermal route: LD50 = 1300 mg/kg
Skin corrosion / irritation	No additional data available
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	Monograph(s) from the IARC (International Agency for Research on Cancer): CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No additional data available.

12.2 Persistence & degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

Do not discharge into the environment especially not into waterways, sewers and the sea.

SECTION 12 NOTES:

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. Road	1219
UN No. SEA	1219
UN No. AIR	1219

14.2 UN proper shipping name

Ethanol Solution (Ethyl Alcohol Solution)

14.3 Transport hazard class(es)

ADR/RID/ADN Class: 3 IMDG
Class: 3
ICAO Class/Division: 3
Transport Labels



14.4 Packing group

ADR/RID/ADN Packing group: II
IMDG Packing group: II
ICAO Packing group: II

14.5 Environmental hazards

Danger to the Environment- NO
Marine Pollutant- NO
Other Information- NONE

14.6 Special precautions for user

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Overland Transport

Classification Code (ADR): F1
Special Provisions(ADR): 144, 601
Limited Quantities (ADR): 1L
Exceptional Quantities (ADR): E2
Packing Instructions (ADR): P001, IBC02, R001
Mixed Packaging Provision (ADR): MP19
Portable Tank & Bulk Container Instructions (ADR): TP1
Tank Code (ADR) LGBF
Vehicle for Tank Carriage (ADR): FL
Transport Category (ADR) 2
Special Provisions for Carriage- Operation (ADR): S2,S20
Hazard Identification Number (Kemier No.): 33
Orange Plates



Tunnel Restriction Code (ADR): D/E
EAC Code: 2YE

Transport By Sea

Special Provisions (IMDG): 144
Limited Quantities (IMDG): 1 L
Exceptional Quantities (IMDG): E2
Packing Instructions (IMDG): P001
IBC Packing Instructions (IMDG): IBC02
Tank Instructions (IMDG) : T4
Tank Special Provisions
Packing Instructions (IMDG): TP1
EmS-No (Fire): F-E
EmS-No (Spillage): S-d
Stowage Category (IMDG): A

Air Transport

PCA Excepted Quantities (IATA): E2
PCA Limited Quantities (IATA): Y341
PCA Limited Quantity Max Net quantity (IATA) 1 L
PCA Packing Instructions IATA): 353
PCA Max net quantity (IATA): 5L
CAO packing Instructions (IATA) 364
CAO Max Net Quantity (IATA) 60L
Special Provisions (IATA) A3, A58, A180
ERG Code (IATA) : 3L

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

SECTION 14 NOTES:



SECTION 15: REGULATORY INFORMATION

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

EU Regulations

Contains No Reach Substances with Annex XVII Restrictions
Contains No Substances on the Reach Candidate List
Contains no Reach Annex XIV Substance

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

No Additional Information Available

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

DISCLAIMER:

This information is provided for documentation purposes only. The statements made here are based upon technical data that Hydro-X believes to be reliable and are intended to describe the product with regard to necessary safety protections. They do not guarantee special characteristics. This information is provided without warranty, expressed or implied, except that it is accurate to the best of our current knowledge.