

Material Safety Data Sheet

Section 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1. Product Identifier

Product Name: Hand Sanitiser Gel HY111(100ml), HY112 (500ml), HY117 (5 litre)
Pure Substance/Mixture: Mixture containing Ethyl alcohol (Ethanol), Carbomer 940, Triethanolamine, Glycerin and Water

1.2. Relevant identified uses of the substances or mixture and uses advised against

Recommended Use: External application to the hands for disinfection
Uses advised against: Any use other than recommended

1.3. Details of the Supplier of the safety data sheet

Manufacturer: Chemist Plus
Tel: +44 (0) 121 667 8312

1.4. Emergency Telephone Number

Emergency Telephone Number: 44 (0) 121 667 8312

Section 2. Hazards Identification

EMERGENCY OVERVIEW: Ethyl Alcohol is Flammable Liquid And Vapor. Harmful If Swallowed Or Inhaled. Causes Irritation To Eyes and Respiratory Tract. Affects Central Nervous System. May Be Harmful If Absorbed Through Skin. May Cause Irritation To Skin

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (including amendments):

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Serious eye damage/eye irritation	Category 2

OSHA defined hazards Not classified

Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

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Hazard pictograms:



Signal word: Danger

Hazard Statements

H225 Highly flammable liquid and vapour

H222 Extremely flammable aerosol.

H205 May explode if heated.

H302 Harmful if swallowed

H322 Harmful if inhaled

H319 Causes serious eye irritation

H315 Cause Skin irritation

Precautionary Statements – EU (1272/2008)

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

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Section 3. Composition/Information of Ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

Chemical Nature of the Preparation – containing Isopropyl alcohol (IPA), Carbomer 940, Triethanolamine, glycerin and Lavender Essential Oil.

Chemical Name	CAS No.	% Weight	Classification
Ethyl Alcohol	64-17-5	75	H224 Extremely flammable liquid and vapour H315: Causes skin irritation H318: Causes serious eye damage
Water	7732-18-5	23.40	N/A
Glycerine	56-81-5	1	None
Carbomer 940	9003-01-4	0.5	None
Triethanolamine	102-71-6	0.1	H315: Causes skin irritation H318: Causes serious eye damage H319: Causes serious eye irritation

Section 4. First Aid Measures

4.1 Description of First Aid Measures

Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Skin contact	Get medical attention if irritation develops and persists.
Eye contact	Flush eyes thoroughly with water for at least 15 minutes. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth thoroughly with water and give large amounts of water to people not unconscious. Seek medical attention if discomfort persists.
General information	First aid personnel must be aware of own risk during rescue

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4.2 Most important symptoms and effects, both acute and delayed

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Section 5. Fire-Fighting Measures

5.1 Extinguishing Media Suitable

Extinguishing Media

Dry chemical, CO₂, water spray or alcohol resistant foam.

Unsuitable Extinguishing Media

None known

5.2 Specific hazards arising from the mixture

Flammable aerosol - may cause flash fire

5.3 Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Firefighting Equipment/Instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Containers close to fire should be removed immediately or cooled with water.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate the area. Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).

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6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information

6.3 Methods and material for containment and cleaning up

Remove sources of ignition.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapors and spray mist and contact with skin and eyes. Do not smoke and do not spray near an open flame or other sources of ignition. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Keep away from heat, sparks and open flame. No special restrictions on storage with other products.

7.3 Specific end use (s)

This product should only be used as intended

Section 8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits Exposure Limits Ethyl Alcohol

TWA: 983 STEL: 1230 (mg/m³) [Australia]

TWA: 200 STEL: 400 (ppm) from ACGIH (TLV) [United States] [1999]

TWA: 980 STEL: 1225 (mg/m³) from NIOSH

TWA: 400 STEL: 500 (ppm) from NIOSH

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TWA: 400 STEL: 500 (ppm) [United Kingdom (UK)]

TWA: 999 STEL: 1259 (mg/m³) [United Kingdom (UK)]

TWA 400 STEL: 500 (ppm) from OSHA (PEL) [United States]

TWA 980 STEL: 1225 (mg/m³) from OSHA (PEL) [United States]

8.2 Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location

8.3 Personal Protective Equipment

Eye/face protection Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

Section 9. Physical and Chemical Properties

9.1 Physical and Chemical Properties

Appearance:	Liquid/Gel
Colour:	Clear colourless to slightly opaque
Odour:	Lavender
Odour threshold:	No data available
pH:	No data available
Melting/freezing point:	-114.1°C as Ethyl alcohol
Initial boiling point and Boiling range:	78.4°C as Ethyl alcohol
Flash point:	Closed cup: 18.3°C - 24°C
Evaporation rate:	No data available

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Flammability:	No data available	
Upper/lower flammability or explosive limits:		No data available
Vapour pressure:	No data available	
Vapour density:	No data available	
Relative density (water=1):	No data available	
Solubility(ie's):	No data available	
Partition coefficient (n-octanol/water):		No data available
temperature:	365°C as Ethyl alcohol	Auto-ignition temperature: No data available
Decomposition temperature:		No data available
Viscosity:	No data available	
Explosive properties:	No data available	Oxidising properties:
	No data available	

9.2 Other information

No data available

Section 10. Stability and Reactivity

10.1 Reactivity

Not reactive under normal conditions.

10.2 Chemical Stability

Stable under normal storage/handling conditions

10.3 Possibility of hazardous reactions None

under normal processing conditions

10.4 Conditions to avoid

Heat. Flames. Sparks. Avoid contact with strong oxidisers

10.5 Incompatible materials None

Known

10.6 Hazardous decomposition products

Carbon oxides.

Section 11. Toxicological Information

11.1 Reactivity

No data are available for the product therefore available data for the components of the product are provided below.

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

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Potential Health Effects

Eyes :	Causes serious eye irritation.
Skin :	Health injuries are not known or expected under normal use.
Ingestion :	Health injuries are not known or expected under normal use.
Inhalation :	Health injuries are not known or expected under normal use.
Chronic Exposure :	Health injuries are not known or expected under normal use.

Human Exposure

Eye contact : Redness, Pain, Irritation

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected. Inhalation : No symptoms known or expected.

Toxicity

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT-single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure : no data available

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Aspiration toxicity : no data available

Section 12. Ecological Information**12.1 Toxicity****Hazards to the aquatic environment**

Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia) (EC50 (48h) > 1000 mg/l). Not harmful to algae (EC50 (72h) >1000 mg/l). Inhibition of activated sludge.

Harmful to aquatic life.

LC50 fishes 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)

12.2 Persistence and Degradability

Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test) data on mobility of the substance available.

Biochemical oxygen demand (BOD)	1.19 g O ² /g substance
Chemical oxygen demand (COD)	2.23 g O ² /g substance
ThOD	2.40 g O ² /g substance
BOD (% of ThOD)	0.49 % ThOD

12.3 Bioaccumulative Potential

Log Pow	0.05 (Experimental value)
Bio-accumulative potential	Low potential for bioaccumulation (Log Kow < 4)

12.4 Mobility in Soil

Surface tension 0.021 N/m (25 °C)

12.5 Results of PBT and PVT Assessment

There are no indications that this product contains substances likely to be classified as PBT or vPvB

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12.6 Other Adverse Effects

None known

Section 13. Disposal Considerations

13.1 Waste Treatment Methods

Waste from residues / unused products

Dispose in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Waste is classified as hazardous.

Contaminated Packaging

Empty containers should be disposed of in accordance with local regulations

Other Information

None

Section 14. Transport Information

Not Classified as dangerous for transport

14.1 UN Number

ADR/RID: 1219

IMDG: 1219

IATA: 1219

14.2 UN proper shipping name

ADR/RID: ETHANOL (ETHYL ALCOHOL)

IMDG: ETHANOL (ETHYL ALCOHOL)

IATA: Ethanol

14.3 Transport Hazard class (es)

ADR/RID: 3

IMDG: 3

IATA: 3

14.4 Packing Group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

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14.6 Special Precautions

No data available

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

Section 15. Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Data Assessment

For this product a chemical safety assessment was not carried out

Section 16. Other Information

Full text of R-phrases referred to under sections 2 and 3 H225

Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness

General Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.