

MATERIAL AND SAFETY DATA SHEET

ALCOHOL-BASED HAND GEL FORMULATION 1

Compilation date: 20/04/2020

1. Identification of the substance/preparation

Product type:	Alcohol-based hand gel (WHO-recommended formulation)
Product description:	Hygienic hand disinfection
Composition:	Ethanol 72% (v/v), Water (26.3%), Glycerine 1.45% (v/v), Hydrogen peroxide 0.125% (v/v), 2-Hydroxypropyl methyl Ether cellulose 1% (w/w).
Code:	Batch code. (Traceable to batch & date of production)
Distributor:	Bluedog Media Limited
Address:	Fort Dunlop, Fort Parkway, Birmingham. B24 9FE

2. Hazards identification

Hazard statements:	DO NOT INGEST - FOR EXTERNAL USE ONLY Highly flammable liquid and vapour. Keep away from heat / sparks / open flames / hot surfaces. No smoking. Keep container tightly closed. Avoid contact with the eyes. If product comes into contact with eyes rinse immediately with clean warm water. Keep out of the reach of children
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Hazard symbols:

Directions for use:	Decant into a spray bottle or pump pack to use as a sanitiser. Apply a palmful of alcohol-based hand gel and cover all surfaces of the hands. Rub hands until dry. Do not use on broken or irritated skin.
Storage instructions:	Flammable. Keep away from flame and heat. Suitable for storage in ambient conditions.

3. Composition/information on ingredients

3.1. Mixtures

Hazardous ingredients:

EINECS	CAS	PBT / WEL	CLP Classification	Percent
Ethanol				
200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	80%
Glycerine				
200-289-5	56-81-5	Substance with a Community workplace exposure limit.		1.45%
Hydrogen Peroxide				
231-765-0	7722-84-1	the substance is not PBT / vPvB		0.125 %
Methyl Hydroxypropyl Cellulose (Cellulose, 2-hydroxypropyl methyl ether)				
1907/2006	9004-65-3	the substance is not PBT / vPvB		1%

4. First aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. Fire-fighting measures

Contains alcohol. Highly flammable. In combustion emits toxic fumes. Forms explosive air- vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

6. Accidental release measures

Personal precautions: Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Do not use equipment in clean-up procedure which may produce sparks. Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

7. Handling and storage

Handling requirements: No smoking. Ensure sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Spillages will make floors slippery.

Storage conditions: Store in a cool, well ventilated, dry area. Keep container tightly closed. Keep away from sources of ignition. Ensure lighting and electrical equipment are not a source of ignition. Do not allow to freeze.

8. Exposure controls/personal protection

Hazardous ingredients:

Workplace exposure limits:			Respirable dust	
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
Ethanol				
UK	1920 mg/m ³	-	-	-
Glycerine				
UK	10 mg/m ³	-	-	-
Hydrogen Peroxide				
UK	1.4 mg/m ³	2.8 mg/m ³	-	-
Methyl Hydroxypropyl Cellulose				
UK	-	-	-	-

9. Physical and chemical properties

State: Gel

Colour: Colourless

Odour: Alcoholic

Evaporation Rate: No Data available

Oxidising: No data available

Solubility in water: Soluble

Viscosity: No data available

Boiling point/range °C: >35

Melting Point/Range °C: <0

Flash point °C: <23

Part.coeff. n-octanol/water: No data available

Autoflammability °C: >200

Vapour pressure: No data available

Relative density: 0.860

pH: Approx 6 - 6.5

VOC g/l: No data available

10. Stability and reactivity

Reactivity: Stable under recommended transport or storage conditions.
Chemical stability: Stable under normal conditions. Stable at room temperature.
Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames.
Materials to avoid: Strong oxidising agents. Strong acids.
Haz. decomp. products: In combustion emits toxic fumes.

11. Toxicological information

Information on toxicological effects

Hazardous ingredients:

ETHANOL				
DERMAL	RBT	LD50	>2000	mg/kg
ORAL	MUS	1H LC50	>20	mg/kg
ORAL	RAT	LD50	>2000	mg/kg
GLYCERINE				
ORAL	RAT	LD50	23000	mg/kg
HYDOGEN PEROXIDE (35 % w/w)				
ORAL	RAT	LD50	>1193	mg/kg
METHYL HYDROXYPROPYL CELLULOSE (>90 % w/w)				
ORAL	RAT	LD50	>2000	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure:

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat. The casualty may appear intoxicated.

Inhalation: Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

12. Ecological information

Toxicity of hazardous ingredients:

Ethanol			
Algae	48H EC50	>100	mg/l
Daphnia magna	48H EC50	>100	mg/l
FISH	96H LC50	>100	mg/l

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential

Mobility: Volatile. Soluble in water. Readily absorbed into soil.

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

Other adverse effects: Negligible ecotoxicity.

13. Disposal considerations

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

UN number: UN1170

Shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL)

Transport hazard class: 3

Packing group: II

Environmentally hazardous: No

Marine pollutant: No

Special precautions for user: Limited Quantity - 1 Litre/Kilo

Tunnel code: D/E

Transport category: 2

15. Regulatory information

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Produced under the World Health Organisation Guide to Local Production: WHO-recommended Handrub Formulations https://www.who.int/gpsc/5may/Guide_to_Local_Production.pdf

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Legal disclaimer: The information contained in this data sheet is to the best of our knowledge and belief accurate and is based upon our technical knowledge of the product at the date of issue. No warranty or representation, express or implied, is made as to its accuracy, reliability or completeness. This company will not be responsible for any damage or injury resulting from any inherent hazard of the material, the abnormal use of the material or from failure to adhere to recommendations. This data sheet and the health, safety and environmental information it contains are considered to be accurate as of the date specified above. We have reviewed any information contained herein, which we received from external sources. However no warranty or representation, express or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet. Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this material safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorisation given or implied to practise any patented invention without a valid licence. This company shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations or from any hazards inherent in the nature of the material.