

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: IDENTIFICATION

- **Product Name:** Hand Sanitiser
- **Recommended Use:** Hand disinfectant for hygienic use
- **Manufacturer/Supplier:**  
FlowChemUK Limited  
Block B, Mark Street Industrial Estate Sandiacre  
Nottingham NG10 5AD  
T +44 333 733 1541  
Email: [sales@flowchemuk.com](mailto:sales@flowchemuk.com)  
Website: [www.flowchemuk.com](http://www.flowchemuk.com)
- **Emergency Contact Number:** 0844 892 0111

#### SECTION 2: HAZARDS IDENTIFICATION

Classification (According to UK CLP / GHS):

- Flammable Liquids – Category 2
- Eye Irritation – Category 2A

Label Elements:

Signal Word: DANGER

Hazard Pictograms:



Hazard Statements:

- H225: Highly flammable liquid and vapour
- H319: Causes serious eye irritation

Precautionary Statements:

- P210: Keep away from heat, sparks, open flames, hot surfaces – No smoking
- P233: Keep container tightly closed
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P403+P235: Store in a well-ventilated place. Keep cool
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percentage (%)	Function
Isopropyl Alcohol (IPA)	67-63-0	50.000	Antimicrobial agent
Water	7732-18-5	48.000	Solvent
Glycerine	56-81-5	2.000	Humectant

#### SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move person to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Product is generally non-irritating. Rinse with water if irritation occurs.
- **Eye Contact:** Rinse with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek immediate medical help.

#### SECTION 5: FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Use alcohol-resistant foam, dry chemical, or CO<sub>2</sub>
- **Unsuitable Media:** Do not use water jets

- Hazards: Vapours may form explosive mixtures with air
  - Protective Equipment: Firefighters should wear full protective gear including self-contained breathing apparatus
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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions: Eliminate all ignition sources. Avoid breathing vapours.
  - Environmental Precautions: Prevent entry into sewers, waterways, or soil.
  - Clean-up Methods: Absorb with inert material. Place in a suitable, closed container for disposal.
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#### SECTION 7: HANDLING AND STORAGE

- Handling: Keep away from heat and ignition sources. Use in well-ventilated areas. Avoid eye contact.
  - Storage: Store in tightly sealed containers in a cool, dry, well-ventilated place. Keep away from direct sunlight and ignition sources.
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#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Type	Recommendation
Engineering Controls	Use with adequate ventilation
Eye Protection	Safety goggles if risk of splashing
Hand Protection	Not required under normal use
Respiratory Protection	Not necessary under normal use
Hygiene Measures	Wash hands after use

#### Occupational Exposure Limits (UK EH40):

- Isopropyl Alcohol:
    - Long-term exposure limit (8-hr TWA): 400 ppm
    - Short-term exposure limit (15-min): 500 ppm
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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, colorless liquid
Odor	Alcohol-like
pH	6–8 (approx.)
Flash Point	~22°C
Boiling Point	80–85°C
Solubility	Miscible in water
VOC Content	~50%
Specific Gravity	~0.88

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#### SECTION 10: STABILITY AND REACTIVITY

- Reactivity: No known hazardous reactions
  - Stability: Stable under recommended conditions
  - Hazardous Decomposition Products: Carbon oxides under fire conditions
  - Incompatible Materials: Strong oxidizers, acids
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#### SECTION 11: TOXICOLOGICAL INFORMATION

- Inhalation: May cause drowsiness or dizziness at high concentrations
  - Skin Contact: Generally non-irritating
  - Eye Contact: May cause irritation
  - Ingestion: Harmful if swallowed in large quantities
  - Chronic Effects: Not expected under normal use
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#### SECTION 12: ECOLOGICAL INFORMATION

- Ecotoxicity: IPA may be harmful to aquatic life in large quantities
  - Persistence and Degradability: Readily biodegradable
  - Bioaccumulation: Low potential
  - Mobility: High; disperses in water
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#### SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose in accordance with local, regional, national, and international regulations
- Do not pour into drains or waterways
- Empty containers may retain flammable vapors

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**SECTION 14: TRANSPORT INFORMATION**

Mode	UN Number	Shipping Name	Class	Packing Group
Road (ADR)	UN 1987	Alcohols, n.o.s. (IPA)	3	II
Sea (IMDG)	UN 1987	Alcohols, n.o.s. (IPA)	3	II
Air (IATA)	UN 1987	Alcohols, n.o.s. (IPA)	3	II

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**SECTION 15: REGULATORY INFORMATION**

- Classification under UK CLP Regulation: Flammable Liquid – Category 2, Eye Irritant – Category 2A
- REACH Status: All components registered or exempt
- Labeling: Complies with GHS/CLP standards

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**SECTION 16: OTHER INFORMATION****HMIS Ratings:**

- Health: 2
- Flammability: 3
- Reactivity: 0
- PPE: B (Goggles and gloves recommended)

**Abbreviations:**

- GHS: Globally Harmonized System
- CLP: Classification, Labelling, and Packaging
- IPA: Isopropyl Alcohol

Disclaimer: The information provided is believed to be accurate and represents the best knowledge currently available. It is intended to describe the product for health and safety purposes only.