

1. Section 1: Product and company identification

Product name:	HypaClean Antibacterial Hand Sanitizer Gel
Product use:	For hand disinfection provides rapid bacterial and microbial kill of a broad spectrum of microorganisms including antibiotic-resistant strains e.g. MRSA and VRE. Always be used after sneeze, cough or blow your nose, use washroom or change diapers and handle garbage. Before and after you prepare or eat food and touch a cut or open sore.
Manufacturer:	Safety First Aid Group Ltd
Address:	Unit 18, Eyncourt Road, Woodside Industrial Estate, Dunstable, LU5 4TS
Tel:	+44(0)208 202 7447
Fax:	0800 281 655
Website:	www.safetyfirstaid.co.uk

2. Section 2: Composition/ingredients

Ingredient	CAS No.	% by weight
Ethanol	Unknown	60-80 %
Deionized water	Unknown	20-40 %
Carbomer	Unknown	0.1-1 %
Propylene glycol	Unknown	0.1-1 %
Glycerol	Unknown	2-5 %
PEG-33 and PEG-8 dimethicone and PEG-14	Unknown	0.1-1 %
TEA	Unknown	0.1-1 %
fragrance	Unknown	0.1-1 %

3. Section 3: Possible hazards:

3.1 Emergency overview:

Color: Transparent

Odor: green apple alcoholic odor

General physical form: clear viscous liquid

Immediate health, physical, and environmental hazards: Flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Closed containers exposed to heat from fire may build pressure and explode.

May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 Potential health effects.:

- Eyes:** Moderate Eye Irritation Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- Skin:** No adverse effects expected when used under normal conditions of use in accordance with label directions.
- Ingestion:** Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May be absorbed following ingestion and cause target organ effects.
- irritation:** Sings may include abdominal pain, nausea, diarrhea and vomiting
- Inhalation:** Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May be absorbed following inhalation and cause target organ effects.
- Chronic effects:** Long term exposure by swallowing or repeated inhalation, may cause degenerative changes in the liver, kidney and heart.
- Target Organ Effects:** Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Prolonged or repeated exposure may cause:
- Liver Effects:** Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

NOTE: This product contains ethanol. There are data associating human consumption of alcoholic beverages (ethanol) with developmental toxicity. This is not an expected effect during the foreseeable use of this product.

Carcinogenicity: Contains a chemical or chemicals which can cause cancer.

NOTE: This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified as human carcinogens by the International Agency for Research on Cancer, the U.S. National Toxicology Program, and the California Environmental Protection Agency (for purposes of Proposition 65). Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer."

Ingredient	CAS Number	Class Description	Regulation
Ethyl alcohol	64-17-5	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

4. Section 4: First aid measures:

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed:

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: No need for first aid is anticipated.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. Section 5: Firefighting measures

Suitable extinguishing media:	Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).
Exposure hazards:	N/A
Protective equipment for fire-fighters:	Special fire-fighting procedures: wear full protective equipment (bunker gear) and a self-contained breathing apparatus (SCBA).
Further information:	Unusual Fire and Explosion Hazards: Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Closed containers exposed to heat from fire may build pressure and explode.
Flammable Properties:	Autoignition temperature 799 °C Flash Point 21 °C Flammable Limits(LEL) 3.28 % volume Flammable Limits(UEL) 19 % volume OSHA Flammability Classification: Class IB Flammable Liquid

6. Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel.

6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Clean-up methods

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an

appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

7. Section 7: Handling and storage

Handling:	Avoid eye contact. Do not ingest. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Keep out of the reach of children.
Protection against fire and explosion:	<p>Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.</p> <p>Unusual Fire and Explosion Hazards: Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Closed containers exposed to heat from fire may build pressure and explode.</p> <p>Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.</p>
Storage:	Store away from heat. Keep container tightly closed.

8. Section 8: Exposure controls/personal protection

8.1. ENGINEERING CONTROLS

Use in a well-ventilated area.

8.2. PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1. Eye/Face Protection: Avoid eye contact.

8.2.2. Skin Protection: Not applicable.

8.2.3. Respiratory Protection: Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4. Prevention of Swallowing: Do not ingest.

8.3. EXPOSURE GUIDELINES:

Ingredient	Authority	Type	Limit
Ethyl alcohol w/w	ACGIH	STEL	1000 ppm
Ethyl alcohol w/w	OSHA	TWA	1900 mg/m ³

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration.

9. Section 9: Physical and Chemical properties

Color:	Transparent
General physical form:	Clear viscous liquid
Odor:	Green apple alcoholic odor

Autoignition Temp:	799°C
Flash point:	21°C
Flammable limits-LEL:	3.28% volume
Flammable Limits- UEL:	19% volume
Boiling Point:	78°C
Vapor Density:	1.6 [ref. Std: AIR=1]
Specific gravity:	0.83 [ref. Std: WATER=1]
PH:	6-9
Solubility in water:	Moderate
Evaporation rate:	1.4 [ref. Std: BUOAC=1]
Volatile organic compounds:	496 g/l
Percent volatile:	90% weight
Viscosity:	N/A
VOC Less H2O & Exempt Solvents:	630 g/l

10. Section 10: Stability and reactivity:

Stability: Stable.

Materials and Conditions to Avoid:

Conditions to avoid:	Heat, sparks, open flames, smoking and static charges
Hazardous decomposition products:	Carbon monoxide and carbon dioxide during combustion
Additional information:	Hazardous Polymerization: Hazardous polymerization will not occur.

11. Section 11: Toxicological information

Eyes: Moderate irritation.

Skin: No adverse effects expected when used under normal conditions of use in accordance with label directions.

Ingestion: Swallowing can cause harmful central nervous system effects.

Inhalation: Irritation to respiratory system.

Chronic effects: Long term exposure by swallowing or repeated inhalation, may cause degenerative changes in the liver, kidney and heart.

12. Section 12: Ecological information

Ecotoxicological information: According to the UNEP SIDS Report on Ethanol: the substance is stable to hydrolysis but is readily biodegradable (74% after 5 days) and is not likely to bioaccumulate.

Chemical Fate information: Not determined.

13. Section 13: Disposal considerations

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

14. Section 14: Transport information

U.N. No.: 1170.

Class: 3

Subsidiary risk: None allocated.

Packing group: III

Hazchem code: 2 [Y] E

Special precaution for users: Keep containers tightly closed and away from all ignition sources.

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15. Section 15: Regulatory Information

Packaging and labeling: Defined as a 'Dangerous Good' by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

16. Section 16: Other Information

NFPA Hazard Classification:

Health: 1

Flammability: 3

Reactivity: 0

Special Hazard: None.

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.



Material Safety Data Sheet

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Information supplied in this safety data sheet is to be used as guidance for the safe use, storage and handling of the product, and is correct to the best of our knowledge and belief at the time of publication.

However, no guarantee is made as to its accuracy. This 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 other process. As conditions of use of the product are outside our control, the information is given without legal responsibility. The user is responsible for compliance with relevant legislation.