

MATERIAL SAFETY DATA SHEET

Document No.: PSK/MSDS/141_GLOW

Revision No.: 01

Revised Date: 10.01.2022

This MSDS has been prepared by PSK Pharma Pvt. Ltd., Quality Assurance Dept.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Ethyl Alcohol Antiseptic Gel
"Han'gel" with "Biochek Glow Kit"
Instant Hand Sanitizer

COMPANY

PSK Pharma Private Limited
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RECOMMENDED USE: Instant Hand Sanitizer Gel with UV Fluorescent Dye for training

2. COMPOSITION

Ingredient Name	CAS No.	Percentage
Ethyl Alcohol	64-17-5	60% w/w
Emollient	-	< 5% w/w
UV Fluorescent Dye	Proprietary	< 1% w/w
Purified water & other ingredients determined not to be hazardous	7732-18-5	qs to 100%

3. HAZARDS IDENTIFICATION

NOTE: DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE.

POISONS SCHEDULE: None allocated

RISK

Risk Codes	Risk Phrases
R10	Flammable.
R36	Irritating to eyes.

SAFETY

Safety Codes	Safety Phrases
S401	To clean the floor and all objects contaminated by this material use water and detergent.
S46	If swallowed IMMEDIATELY contact Doctor
S60	This material and its container must be disposed of as hazardous waste.

PICTOGRAMS



4. FIRST AID MEASURES

SWALLOWED

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

EYE

- If this product comes in contact with the eyes:
- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- No adverse effects anticipated from normal use.
- If unintended skin contact occurs:
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

- Treat symptomatically.
- For acute or short term repeated exposures to ethanol:
- Acute ingestion in non-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K).
- Give 50% dextrose (50-100 ml) IV to obtunded patients following blood draw for glucose determination.
- Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine).
- Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions.
- Fructose administration is contra-indicated due to side effects.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.
- Water spray or fog - Large fires only.

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- If safe, switch off electrical equipment until vapor fire hazard removed.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- Avoid spraying water onto liquid pools.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 500 meters in all directions.

FIRE/EXPLOSION HAZARD

- Liquid and vapor are flammable.
- Moderate fire hazard when exposed to heat or flame.
- Vapor forms an explosive mixture with air.
- Moderate explosion hazard when exposed to heat or flame.
- Vapor may travel a considerable distance to source of ignition.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).
- Combustion products include: carbon dioxide (CO₂), nitrogen oxides (NO_x), other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY

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- Avoid contamination with strong oxidizing agents as ignition may result

HAZCHEM: 2Y

6. ACCIDENTAL RELEASE MEASURES (SPILL)

MINOR SPILLS

- Slippery when spilt.
- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Wipe up.
- Collect residues in a flammable waste container.

MAJOR SPILLS

- Slippery when spilt.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, naked lights or ignition sources.
- Increase ventilation.
- Stop leak if safe to do so.
- Water spray or fog may be used to disperse / absorb vapour.
- Contain spill with sand, earth or vermiculite.
- Use only spark-free shovels and explosion proof equipment.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the MSDS

7. HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Remove all ignition sources.
- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- When handling DO NOT eat, drink or smoke.
- Always wash hands with soap and water after handling.
- Avoid physical damage to containers.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.

SUITABLE CONTAINER

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

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- Avoid storage with oxidisers.

STORAGE REQUIREMENTS

- Store in original containers in approved flammable liquid storage area.
- Store away from incompatible materials in a cool, dry, well-ventilated area. Store below 25 deg.C.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- No smoking, naked lights, heat or ignition sources.
- Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access.
- Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.
- Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.
- Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors.
- Keep adsorbents for leaks and spills readily available.
- Protect containers against physical damage and check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with critical values that require monitoring at the workplace:	
Ethyl Alcohol	64-17-5
ACGIH Threshold Limit Value (TWA) = 1000 ppm TWA NIOSH = 1000 ppm TWA; 1900 mg/m3 TWA 3300 ppm IDLH OSHA - Final PELs = 1000 ppm TWA; 1900 mg/m3 TWA	

Additional information: The lists that were valid during the compilation were used as basis.
Special Information, Exposure/Protection

The extent to which the following recommendations for exposure control and protection are observed should depend on the risk assessment undertaken for the specific conditions under which this product is used, including occupational hygiene measurements.

Recommended Ventilation
Use in a well-ventilated area.

Eye Protection
Avoid eye contact with vapour, spray, or mist.

Hand Protection
Not applicable.

Respiratory Protection
Avoid breathing vapours, mists or spray.

Prevention of Accidental Ingestion
Do not ingest. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Transparent slightly viscous flammable liquid with a characteristic citrus fragrance; mixes with water

PHYSICAL PROPERTIES

Gel.

Mixes with water.

Molecular Weight: Not Applicable

Boiling Range (°C): Not Available

Melting Range (°C): Not Applicable

Specific Gravity (water=1): 0.89- 0.91 @ 25°C

Solubility in water (g/L): Miscible

pH (as supplied): 5.0 - 7.0

pH (1% solution): Not Available

Vapour Pressure (kPa): Not Available

Volatile Component (%vol): Not Available

Evaporation Rate: Not Available

Relative Vapour Density (air=1): Not Available

Flash Point (°C): 25°C

Lower Explosive Limit (%): 3.3

Upper Explosive Limit (%): 19

Autoignition Temp (°C): Not Available

Decomposition Temp (°C): Not Available

State: Gel

Viscosity: Not Available

10 STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition: None

11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification:

ETHANOL

TOXICITY

Oral (rat) LD50: 7060 mg/kg Skin (rabbit):20 mg/24hr- Moderate

Oral (human) LDLo: 1400 mg/kg Skin (rabbit):400 mg (open)- Mild

Oral (man) TDLo: 50 mg/kg Eye (rabbit):100mg/24hr- Moderate

Oral (man) TDLo: 1.40 mg/kg Eye (rabbit): 500 mg SEVERE

Oral (woman) TDLo: 256 mg/kg/12 wks

Inhalation (rat) LC50: 20, 000 ppm/10h

Inhalation (rat) LC50: 64000 ppm/4h

IRRITATION

Skin (rabbit):20 mg/24hr- Moderate

Skin (rabbit):400 mg (open)- Mild

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Eye (rabbit):100mg/24hr- Moderate
Eye (rabbit): 500 mg SEVERE
The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

IRRITATION
Nil Reported

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

12. ECOLOGICAL INFORMATION

Information about elimination (persistence and degradability):

DO NOT discharge into sewer or waterways.
Refer to data for ingredients, which follows:

ETHANOL:

Fish LC50 (96hr.) (mg/l): 13480
Algae IC50 (72hr.) (mg/l): 1450
log Kow (Sangster 1997): - 0.3
BOD5: 63%
ThOD: 2.1
Half- life Soil - High (hours): 24
Half- life Soil - Low (hours): 2.6
Half- life Air - High (hours): 122
Half- life Air - Low (hours): 12.2
Half- life Surface water - High (hours): 26
Half- life Surface water - Low (hours): 6.5
Half- life Ground water - High (hours): 52
Half- life Ground water - Low (hours): 13
Aqueous biodegradation - Aerobic - High (hours): 26
Aqueous biodegradation - Aerobic - Low (hours): 6.5
Aqueous biodegradation - Anaerobic - High (hours): 104
Aqueous biodegradation - Anaerobic - Low (hours): 26
Aqueous biodegradation - Removal secondary treatment - High (hours): 67%
Photooxidation half- life water - High (hours): 3.20E+05
Photooxidation half- life water - Low (hours): 8020
Photooxidation half- life air - High (hours): 122
Photooxidation half- life air - Low (hours): 12.2
DO NOT discharge into sewer or waterways.
log Kow: -0.31- -0.32
Half-life (hr) air: 144
Half-life (hr) H2O surface water: 144
Henry's atm m³ /mol: 6.29E-06
BOD 5 if unstated: 0.93-1.67,63%
COD: 1.99-2.11,97%
ThOD: 2.1

When ethanol is released into the soil it readily and quickly biodegrades but may leach into ground water; most is lost by evaporation. When released into water the material readily evaporates and is biodegradable. Ethanol does not bioaccumulate to an appreciable extent. The material is readily degraded by reaction with photochemically produced hydroxyl radicals; release into air will result in photodegradation and wet deposition.

13. DISPOSAL CONSIDERATIONS

- Consult manufacturer for recycling options and recycle where possible .
- Consult State Land Waste Management Authority for disposal.
- Incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorized landfill.

14. TRANSPORT INFORMATION

Labels Required: FLAMMABLE LIQUID
HAZCHEM: 2[Y]
UNDG:
Dangerous Goods 3 Subrisk: None
Class:
UN Number: 1170 Packing Group: III
Shipping Name: ETHANOL SOLUTION

Air Transport IATA:

ICAO/IATA Class: 3 ICAO/IATA Subrisk: None
UN/ID Number: 1170 Packing Group: III
Special provisions: A3 A58 A148
Shipping Name: ETHANOL

Maritime Transport IMDG:

IMDG Class: 3 IMDG Subrisk: None
UN Number: 1170 Packing Group: III
EMS Number: F- E, S- D Special provisions: 144 223 330
Limited Quantities: 5 L
Shipping Name: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION
(ETHYL ALCOHOL SOLUTION)

15. REGULATORY INFORMATION

Designation according to EC guidelines:

As a drug/ cosmetic preparation, the product is not subject to the provisions of the Chemical Law and the Ordinance on Hazardous Materials. However, normal safety regulations should be observed.

Risk phrases:

10 Flammable.
41 Risk of serious damages to eyes.
67 Vapours may cause drowsiness and dizziness.

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show container or label.

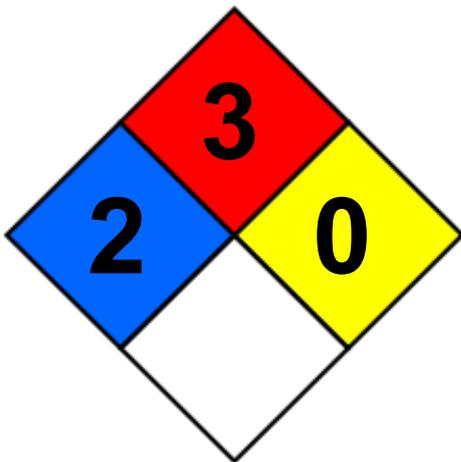
16. OTHER INFORMATION

Relevant R-phrases:

- 11 Highly flammable
- 22 Harmful if swallowed
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 67 Vapours may cause drowsiness and dizziness.

NFPA Hazard Classification

Health: 2 Flammability: 3 Instability: 0 Special Hazards: None



The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Customer Care at +91 96060 69014.