

MATERIAL SAFETY DATA SHEET

Document No.: PSK/MSDS/55

Revision No.: 01

Revised Date: 13.08.2019

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

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

BIOCHEK-C2P

Chlorhexidine Gluconate & Isopropyl Alcohol Antiseptic Solution

COMPANY:

PSK Pharma Private Limited

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RECOMMENDED USE: Skin Antiseptic for Phlebotomy

2. COMPOSITION

Ingredient Name	CAS No.	Percentage
Isopropyl Alcohol	67-63-0	70% v/v
Chlorhexidine Gluconate (CHG)	18472-51-0	2.5% v/v
Moisturizer	-	0.5% w/v
Emollient	-	0.1% w/v
Fragrance	-	0.35% w/v
Carmosine	-	0.00020% w/v
Purified water	7732-18-5	qs to 100%

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3. HAZARDS IDENTIFICATION

NOTE: DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE.

POISONS SCHEDULE NONE ALLOCATED

Information pertaining to particular dangers for man and environment

R 10 Flammable.

R 41 Risk of serious damage to eyes.

R 67 Vapours may cause drowsiness and dizziness.

Classification System

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information by supplier companies.

4. FIRST AID MEASURES

IF SWALLOWED

The liquid may cause acute discomfort and is harmful if swallowed in large quantity and may cause dizziness, disorientation, mental confusion, slurred speech. Ingestion of the liquid may result in nausea, abdominal irritation, pain and vomiting. It may also result in intoxication and drunkenness.

EYE CONTACT

The liquid may cause severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure may produce conjunctivitis.

SKIN CONTACT

The liquid may cause skin irritation after prolonged or repeated exposure. It may produce skin redness, swelling, production of vesicles, scaling and thickening of the skin on contact. It is not considered to be an irritant through normal use.

IF INHALED

The vapor may cause discomfort. Hazard due to inhalation is increased at higher temperatures. Inhalation of higher concentrations of the vapor causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and loss of coordination with dizziness, disorientation and slurring of speech.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Alcohol stable foam, dry chemical powder, carbon dioxide

FIRE FIGHTING PROCEDURES

- Wear breathing apparatus plus protective gloves.
- If safe, switch off electrical equipment until vapour 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.

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- If safe to do so, remove containers from path of fire.

FIRE FIGHTING PROCEDURES

- Liquid and vapour are flammable.
- Moderate fire hazard when exposed to heat or flame.
- Vapour forms an explosive mixture with air.
- Moderate explosion hazard when exposed to heat or flame.
- Vapour 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)
- Decomposition products include chloroaniline.

COMBUSTION PRODUCTS FROM FIRE

Carbon Monoxide
Carbon Dioxide

HAZCHEM CODE 2[Y]

6. ACCIDENTAL RELEASE MEASURES (SPILL)

Person-related safety precautions:

Ensure adequate ventilation
Keep away from ignition sources

Measures for environmental protection:

Do not allow product to reach sewage system or water bodies.
Dilute with much water.

SPILL RESPONSE

Minor Spills

- 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

- 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.

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7. HANDLING AND STORAGE

Precautions for Safe Handling

- Wear protective clothing when risk of overexposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid generation of static electricity.
- DO NOT use plastic buckets.
- Earth all lines and equipment.
- Use spark-free tools when handling.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

Conditions for Safe Storage

- 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.
- Avoid storage with oxidisers, strong alkalis and strong acids.
- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- Keep containers securely sealed.
- Store away from incompatible materials in a cool, dry well ventilated area.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.
- Keep cool. Store below 25 deg.C.

EXPLOSION AVOIDANCE

Flammable liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with critical values that require monitoring at the workplace:	
Isopropyl Alcohol 67-63-0	
WEL () Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm	
Chlorhexidine Gluconate (CHG)	18472-51-0
Not Available	

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

General Information

Form:	Fluid
Colour:	Pink
Smell:	Pleasant
pH	5.5 – 7.5
Density	0.85 – 0.90 g/ml

Change in condition

Flash Point	18°C
Boiling Point	82°C
Solubility	100% in water
Vapor Density	2.1 (Air = 1) for ethanol

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: May produce chloroaniline on decomposition.

11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification:

ETHANOL

TOXICITY

Oral (rat) LD50: 5045 mg/kg

Skin (rabbit) LD50: 12.8 gm/kg

Inhalation (rat) LC50: 16,000 ppm/8-hour

Slightly toxic. Ingestion of large quantity may cause drowsiness & loss of consciousness. Stomach cramps, pain, nausea, vomiting & diarrhoea may also occur. Widespread & prolonged exposure may result in absorption of harmful amts, particularly in infants. Inhalation of low concentrations may cause mild irritation of nose & throat. Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer, permeator).

CHLORHEXIDINE GLUCONATE

TOXICITY

Oral (rat) LD50: 2000 mg/kg Nil Reported

Subcutaneous (rat) LD50: 3320 mg/kg

Intravenous (rat) LD50: 24.2 mg/kg

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

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:

ISOPROPYL ALCOHOL:

CHLORHEXIDINE GLUCONATE:

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites. DO NOT discharge into sewer or waterways.

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.

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- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 67 Vapours may cause drowsiness and dizziness.

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 Quality Control In-charge at +91 8192 240 318.