



MATERIAL SAFETY DATA SHEET

MICROPOROUS TAPE

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 **Company:** Reliance Medical LTD
- 1.2 **Address:** West Ave, Talke, Stoke-On-Trent, Staffordshire, ST7 1TL, United Kingdom.
- 1.3 **Phone Number:** 08456 448808
- 1.4 **Product Reference:** 579/616/617/625/685
- 1.5 **Product Name:** Microporous Tape

2. HAZARD IDENTIFICATION

- 2.1 **Health hazard effects:** N/A
- 2.2 **Environmental impact:** N/A
- 2.3 **Physical and chemical hazards:** N/A
- 2.4 **Special hazard:** N/A
- 2.5 **Main Symptoms:** N/A

3. INFORMATION ON INGREDIENTS

- 3.1 **Ingredients:** 50%-60% Non-woven paper, 40%-50% Hot melt adhesive.

4. FIRST AID MEASURES

- 4.1 **Description of first aid measures:**
 - 4.1.1 **General:** No special instructions, according to conventional treatment.
 - 4.1.2 **Inhalation:** N/A
 - 4.1.3 **Ingestion:** Induce vomiting.
 - 4.1.4 **Skin contact:** N/A
 - 4.1.5 **Eye contact:** N/A

5. FIRE FIGHTING MEASURES

- 5.1 **Fire fighting information:** No special hazards in the process of fire fighting.
- 5.2 **Fire extinguishing agent:** Foam, dry powder, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Cleaning Method:** Such as adhesive tape glue residue on the skin, the proposed use of alcohol scrub removal.
- 6.2 **Environmental Considerations:** N/A

7. HANDLING AND STORAGE

- 7.1 **Management:** No special program control.
- 7.2 **Storage:** Store in a cool, dry, ventilated place. Storage period of 2 years.

8. EXPOSURE CONTROL/PPE

- 8.1 Personal Protection:** N/A
- 8.2 Eye Protection:** N/A
- 8.3 Respiratory Protection:** N/A
- 8.4 Skin Contact:** N/A

9. PHYSICAL CHEMICAL PROPERTIES

- 9.1 Physical State:** Solid
- 9.2 Colour:** White
- 9.3 PH Value:** N/A
- 9.4 Density:** N/a
- 9.5 Shape:** Scroll
- 9.6 Smell:** Slight Odour
- 9.7 Explosive Condition:** N/A
- 9.8 Soluble:** Insoluble

10. STABILITY AND REACTIVITY

- 10.1 Chemical and physical properties:** Stable
- 10.2 Potential hazards under special conditions:** N/A
- 10.3 Substances to be avoided:** Toxic and harmful substances.
- 10.4 Harmful decomposition:** Smoke

11. TOXOLOGICAL INFORMATION

- 11.1 Acute Toxicity:** N/A
- 11.2 Local Effect:** N/A
- 11.3 Sensitivity:** Low ratio of sensitive ingredients.
- 11.4 Slow toxicity or long term toxicity:** Product uses low-sensitive glue, which should lessen the change of allergic reaction.

12. ECOLOGICAL INFORMATION

- 12.1 Possibility of environmental impact:** N/A

13. DISPOSAL

- 13.1 Waste disposal method:** Incineration or landfill under environmental protection authority.

14. TRANSPORT INFORMATION

- 14.1 International Shipping Regulations:** N/A
- 14.2 United Nations Regulations:** N/A
- 14.3 Domestic Transportation Regulations:** N/A

15. REGULATORY INFORMATION

- 15.1 Applicable laws and regulations:** Product registration standard.

16.OTHER INFORMATION

For further information, contact Reliance Medical LTD on 08456 448808.

To the best of our knowledge at the date of printing, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Registered in England No. 5701697

Document Title:
Product:
Revision:
Former Date:

Safety Data Sheet
Wound Cleansing Wipes
V3 (11.20)
08/10/2019



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH), and 1272/2008/EC (CLP)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product name: **Wound Cleansing Wipes**
Product codes: 745, 746, 747, 2745

1.2. Relevant identified uses of the substance or mixture and the uses advised against

Cleansing product. No uses advised against identified.

1.3. Details of the supplier of the SDS

Supplier
Reliance Medical Ltd.
West Avenue,
Talke, Stoke-on-Trent,
Staffordshire ST7 1TL
T: +44 8456 448808
E: sales@reliancemedical.co.uk

1.4. Emergency telephone

National Poisons Information Service (UK) 0844 8920111 (Health Professionals only)
National Health Service (UK) 111

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Globally Harmonised System GHS	not classified as hazardous
1272/2008/EC (CLP)	not classified as hazardous

2.2. Label elements

This product is not classified as hazardous and does not have classification according Regulation (EC) No 1272/2008

Hazard pictograms:	not regulated
Signal word:	not regulated
Hazard statements:	not regulated
Precautionary statements:	not regulated

2.3. Other hazards

Not applicable.

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable.



3.2. Mixture

There is no ingredient present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General information	No special measures required.
Eye contact	If irritation occurs flush eyes with plenty of water.
Skin contact	If irritation occurs, discontinue use and wash affected area with soap and water.
Ingestion	No special measures required.
Inhalation	No special measures required.

4.2. Most important symptoms and effects, both acute and delayed.

No further information available.

4.3. Indication of any immediate medical attention and special treatment needed.

No further information available.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing methods suitable to surrounding conditions.
Unsuitable extinguishing media	None

5.2. Special hazards arising from the substance or mixture

No further information available.

5.3. Advice for firefighter

Protective actions during firefighting	No special measures required
Additional information	No further relevant information available

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

No precautions specified.

6.2. Environmental precautions

Not specified.

6.3. Methods and material for containment and cleaning up

No special methods required.



6.4. Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. No special requirements.

7.3. Specific end use(s)

No specific uses identified.

SECTION 8. EXPOSURE CONTROL

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Personal protective equipment: Not required under normal conditions of use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General Information:

Appearance:	
Form:	Liquid
Colour:	Clear
Odour:	Odourless
Odour threshold:	Not determined.
pH-value at 20 °C:	6,6 - 7,4
Change in condition	
Melting point/ Melting range:	Not Determined.
Boiling point/Boiling range:	100 °C (212 °F).
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto/Self-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.



Vapour pressure at 20 °C (68 °F):	23 hPa (17 mm Hg).
Density at 20 °C (68 °F):	1.01 g/cm ³ .
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

9.2. Other information

No further data available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition

No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Document Title:

Product:

Revision:

Former Date:

Safety Data Sheet
Wound Cleansing Wipes
V3 (11.20)
08/10/2019



SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

The product is not toxic.

12.2. Persistence and degradability

The product is expected to be biodegradable.

12.3. Bio accumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Smaller quantities can be disposed of with household waste.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

DOT, ADR, ADN, IMDG, IATA

Not regulated.

14.2. UN proper shipping name

DOT, ADR, ADN, IMDG, IATA

Not regulated.

14.3. Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Not regulated.

14.4. Packing group

DOT, ADR, ADN, IMDG, IATA

Not regulated.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No

14.6. Special precautions for user

Not applicable

Document Title:
Product:
Revision:
Former Date:

Safety Data Sheet
Wound Cleansing Wipes
V3 (11.20)
08/10/2019



14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
WHMIS:	Workplace Hazardous Materials Information System (Canada)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

Key literature references and sources for data

Approved Supply List Dangerous Substances Directive Dangerous Preparations Directive

Document Title:

Product:

Revision:

Former Date:

Safety Data Sheet

Wound Cleansing Wipes

V3 (11.20)

08/10/2019



Revision comments	SDS created in line with REGULATION (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (as amended).
Revision date	18/11/2020
Revision	V3
Supersedes date	08/10/2019

Legal Disclaimer: 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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



MATERIAL SAFETY DATA SHEET

COOLTHERM™ BURN GEL

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Manufacturing Company:** Reliance Medical (Shanghai) LTD
1.2 Manufacturing Address: Building 94, Lane 328, Hengyong Road, Jiading District, Shanghai, China.
1.3 EC Rep Company: Reliance Medical Ltd.
1.4 EC Rep Address: West Avenue, Talke, Stoke-On-Trent, Staffordshire, ST7 1TL, United Kingdom.
1.5 Phone Number: 08456 448808

1. HAZARD IDENTIFICATION

2.1 Emergency Overview:

Colourless transparent paste.
Flash Point: >100.0°C (Closed cup).
Easily soluble in water.
May cause an allergic skin reaction.

2.2 CAS# 102-71-6

Classification according to GHS
Sensation, skin (1, 1A, 1B)

2.3 Label Elements



Warning

2.4 Hazard Statement:

H317 May cause an allergic skin reaction.

2.5 Precautionary Statements:

Prevention:

P261 Avoid breathing dust, fumes, gas, mist, vapours and spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, eye protection, face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice.
P321 Specific treatment (See additional emergency instructions).
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

Non.

Disposal:

P501 Contents handling to approved waste treatment plants.

Other Hazards:

Physical and Chemical Hazards: See section 10

Human Health Hazards: See section 11

Environmental Hazards: See section 12

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterisation: Mixture

COMPONENT	CAS NO.	EC#	WEIGHT (%)
Polyacrylic Acid	900-01-4	618-347-7	0.5
Glycerin	56-81-5	200-289-5	20
Tris(Hydroxyethyl)amine	102-71-6	203-049-8	0.2
Water	7732-18-5	231-791-2	79.3

3. FIRST AID MEASURES

Description of first aid measures

4.1 General Information: Normal use does not require special measures, industrial production in the long term, refer to the following:

4.1.1 Eye Contact: Flush eyes with water.

4.1.2 Skin Contact: Wash affected areas with water and soap.

4.1.3 Inhalation: Move exposed person to fresh air.

4.1.4 Ingestion: Do not induce vomiting. Seek medical advice.

Personal protective equipment for first aid responders: No data available.

Most important symptoms/effects, acute and delayed: No data available.

Indication of immediate medical attention and special treatment needed: No data available.

4. FIRE FIGHTING MEASURES

4.1 Extinguishing Media: Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

4.2 Unsuitable Extinguishing Media: No data available.

5.2.1 Specific hazards arising from the chemical: No data available.

5.3 Specific protective actions for the fire-fighters Wear protective equipment: self-contained respirator and fully protective impervious suit.

5. ACCIDENTAL RELEASE MEASURES

Normal use does not require special measures, industrial productions in the long term, refer to the following:

5.1 Personal Precautions: Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

5.2 Protective Equipment: No data available.

5.3 Emergency Procedures: Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, place the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

5.4 Environmental Precautions: Do not allow material to be released to the environment without proper governmental permits.

5.5 Methods and materials for containment and cleaning up: All waste must refer to the United Nations, the national and local regulations for disposal.
See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for disposal information.

6. HANDLING AND STORAGE

Normal use does not require special measures, industrial production in the long term, refer to the following:

7.1.1 Precautions for safe handling: Store in a cold, dry, well ventilated environment. Store away from food and water supplies. Wash your hands thoroughly before eating and drinking. Storage of chemicals needed to prevent the generation and accumulation of static electricity when handling the container. Stay away from taboo, such as strong oxidising agents.

7.1.2 Information about fire and explosion protection: The product is non-flammable.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Requirements to be met by storerooms and receptacles

Store in a cool place. Keep container closed, store in a dry and ventilated place.

7.2.2 Information about storage in on common storage facility

Moisture absorption.

7.2.3 Further information about storage conditions

Keep container tightly sealed.

7.2.4 Specific and use.

No data available.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

CAS No.	ACGIH	NIOSH	OSHA
9003-01-4	N/A	N/A	N/A
58-81-5	N/A	N/A	PEL-TWA 15mg/m ³ PEL-TWA 5mg/m ³
102-71-6	TLV-TWA 5mg/m ³	N/A	N/A
7732-18-5	N/A	N/A	N/A

8.2 Engineering Control:

The usual precautionary measures for handling chemical should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

8.3 Personal Protection Equipment

8.3.1 Respiratory Protection: Wear suitable protective mask in order to reduce the respiratory system. For large amount of leakage, wear chemical protective clothing, including self-contained breathing apparatus.

8.3.2 Hand Protection: Wear appropriate protective gloves to reduce skin contact.

8.3.3 Eye Protection: Wear safety goggles or eye protection combined with respiratory protection.

8.3.4 Skin and Body Protection: Working environment required, wear suitable protective clothing to minimize contact with the skin. The type of protective equipment must be according to the concentration and the content of certain hazardous substances in the workplace.

8. PHYSICAL CHEMICAL PROPERTIES

Information on basic physical and chemical properties

9.1 Colour: Colourless transparent

9.2 Physical State: Paste

9.3 Odour: Not available

9.4 Odour Threshold: Not available

9.5 pH: N/A

9.6 Melting Point/Freezing Point: Not available

9.7 Initial Boiling Point and Boiling Range: Not available

9.8 Flash Point: >100.0°C (Closed cup)

9.9 Evaporation Rate: Not available

9.10 Flammability (Solid, Gas): Not available

9.11 Explosion Limits (Vol% in air): Not available

9.12 Vapour Pressure, kPa at 20°C: Not available

9.13 Vapour Density: Not available

9.14 Density/Relative Density (Water=1): Not available

9.15 Solubility: Easily soluble in water

9.16 Partition Coefficient: n-octanol/water: Not available

9.17 Auto-Ignition Temperature: Not available

9.18 Decomposition Temperature: Not available

9. STABILITY AND REACTIVITY

10.1 Chemical Stability: Stable

10.2 Possibility of Hazardous Reaction: No data available

10.3 Conditions to Avoid: Incompatible materials.

10.4 Incompatibilities Materials: No data available

10.5 Hazardous decomposition products: Carbon Oxide

10. TOXOLOGICAL INFORMATION

11.1 Acute Toxicity:

CAS No.	LC50/LD50
9003-01-4	No data available
56-81-5	No data available
102-71-6	LD50 Rat (oral): 7269.3 mg/kg
7732-18-5	No data available

11.2.1 Skin Corrosion/Irritation: No data available

11.2.2 Serious Eye Damage/Irritation: No data available

11.2.3 Respiratory or Skin Sensitisation: No data available

11.2.4 Germ Cell Mutagenicity: No data available

11.2.5 Carcinogenicity: No data available

11.2.6 Reproductive Toxicity: No data available

11.2.7 Specific Target Organ Toxicity – Single Exposure: No data available

11.2.8 Specific Target Organ Toxicity – Repeated Exposure: No data available

11.2.9 Aspiration Hazard: No data available

11.2.10 Information on the likely routes of exposure: No data available

11.2.11 Eyes: No data available

11.2.12 Skin: No data available

11.2.13 Ingestion: No data available

11.2.14 Inhalation: No data available

11. ECOLOGICAL INFORMATION

12.1 CAS# 56-81-5

12.1.1 Ecological Toxicity: No data available

12.1.2 Persistence Degradability: No data available

12.1.3 Bio Accumulative Potential: Bioconcentration in aquatic organisms is low. (BCF:3, k_{ow} -1.76)

12.1.4 Mobility in Soil: Expected to have very high mobility in soil (K_{oc} 1)

12.1.5 Other Adverse Effects: no data available.

12.2 CAS# 102-71-6

12.2.1 Ecological Toxicity: ErC50: 169mg/L – Algae (Scenedesmus) -96h

12.2.2 Persistence and degradability: No data available

12.2.3 Bio Accumulative Potential: Bioconcentration in aquatic organisms is low (BCF: <0.4 and < 3.9)

12.2.4 Mobility in Soil: Expected to have a very high mobility in soil (K_{oc} 10)

12.2.5 Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Recommendation: Consult state, local or national regulations to ensure proper disposal.

13.2 Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN Number:

IATA, IMDG, Model Regulation: N/A

14.2 UN Proper Shipping Name:

IATA, IMDG, Model Regulation: N/A

14.3 Transport Hazard Class(es):

IATA, IMDG, Model Regulation: N/A

14.4 Packing Group:

IATA, IMDG, Model Regulation: N/A

14.5 Packaging Sign:

IATA, IMDG, Model Regulation: N/A

14.6 Environmental Hazards Marine Pollutant: No

14.7 Special Precautions for User: Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No.	TSCA	IECSC	DSL/NDSL	EINECS/ELINCS/NLP
9003-01-4	Listed	Listed	Listed DSL	Listed
56-81-5	Listed	Listed	Listed DSL	Listed
102-71-6	Listed	Listed	Listed DSL	Listed
7732-18-5	Listed	Listed	Listed DSL	Listed

16. OTHER INFORMATION

16.1 Phrases used:

CAS: Chemical Abstracts Service

EC: European Commission

ACGIH: American Conference of Governmental Industrial Hygienists

NIOSH: US National Institute for Occupational Safety and Health

OSHA: US Occupational Safety and Health

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

PEL: Permissible Exposure Level

REL: Recommended Exposure Limit

PC-STEL: Permissible Concentration-Time Weighted Average

PC-TWA: Permissible Concentration-Short Time Exposure Limit

LC50: Lethal Concentration, 50 Percent Kill

LD50: Lethal Dose, 50 Percent Kill

IARC: International Agency for Research on Cancer

EC50: Median Effective Concentration

BCF: Bioconcentration Factor

BOD: Biochemical Oxygen Demand

NOEC: No Observed Effect Concentration

NTP: US National Toxicology Program

RTECS: Registry of Toxic Effects of Chemical Substances

IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
TDG: Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations
TOC: Total Organic Carbon
TSCA: Toxic Substances Control Act of USA
DSL: The Domestic Substances List of Canada
NDSL: The Non-domestic Substances List of Canada

To the best of our knowledge at the date of printing, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



MATERIAL SAFETY DATA SHEET FOR BLUE, CHILDREN'S, CLEAR PLASTERS

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Manufacturer Company:** Reliance Medical Shanghai LTD
1.2 Manufacturer Address: First Floor, Building 66, Lane 118, Suide Road, Putuo District, Shanghai, China.
1.3 EC Company: Reliance Medical LTD
1.4 EC Address: West Ave, Talke, Stoke-On-Trent, Staffordshire, ST7 1TL, United Kingdom.
1.5 EC Phone Number: 08456 448808
1.6 Reference Codes:
Blue Plasters: 448, 449, 540, 541, 542, 543, 544, 545, 546, 548, 549, 558.
Children's Plasters: 633.
Clear Plasters: 6930, 6931, 6932, 6933, 6934, 6942, 6939, 6935, 6936, 6940, 6941, 6937.

2. HAZARD IDENTIFICATION

- 2.1 Emergency overview-** DANGER!
HARMFUL IF INHALED.
EYE IRRITANT.
SKIN IRRITANT.
EXTREMELY FLAMMABLE.
Possible birth defect hazard.
SKIN SENSITISER.
Colourless Liquid Hydrocarbon Odor.
- 2.2 Eye-** Will cause eye irritation. May cause permanent damage if eye is not immediately irrigated.
- 2.3 Skin contact-** Irritating to the skin. May be absorbed through the skin. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.
- 2.4 Inhalation-** Respiratory irritant. The vapor has anesthetic properties and when inhaled at concentrations above the occupational exposure limit, it may cause respiratory irritation, headache, fatigue, dizziness and incoordination. Moderately toxic.
- 2.5 Ingestion-** Ingestion may cause irritation of the gastrointestinal tract. Aspiration of the product into the lungs following ingestion may cause pulmonary injury leading to pneumonitis.

3. INFORMATION ON INGREDIENTS

CHEMICAL FAMILY – ACRYLATE COPOLYMER

<u>Component</u>	<u>CAS No.</u>	<u>Concentration</u>
3.1- Isopropanol	67-63-0	10-35
3.2- Heptane	142-82-5	10-35
3.3- Ethyl Acetate	141-78-6	10-40

4. FIRST AID MEASURES

4.1 Eye- Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Seek immediate medical attention.

4.2 Skin contact- Wash skin with soap and water. Remove grossly contaminated clothing, including shoes, and launder before re-use. Discard shoes. If symptoms (irritation or blistering) persist seek medical attention.

4.3 Inhalation- Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

4.4 Ingestion- DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Get prompt medical attention.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: CO₂, dry chemical, foam, water fog.

5.2 Special firefighting procedures- Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes; cool exposed equipment with water spray.

5.3 Fire and explosion- The vapour is heavier than air and may travel a considerable distance to a source of ignition and flashback. Combustion will evolve toxic and irritant vapours.

5.4 Autoignition- N/A

5.5 Lower explosion limit- (%) 1.0

5.6 Upper explosion limit- (%) 12.7

5.7 Flash point- < -6 degrees (Setaflash Closed Tester)

6. ACCIDENTAL RELEASE MEASURES

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

6.1- Spill and leak procedures- Shut off ignition sources, stop leak if you can do it without risk. For small liquid spills, take up with sand or other absorbent material. For larger spills, dam far ahead of spill for later disposal. No smoking, flames or flares in hazard area! Keep unnecessary people away.

7. HANDLING AND STORAGE

7.1 Handling- Store in a cool, dry, well-ventilated environment away from heat, sparks or fire. Product contains hazardous volatile ingredients which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in ventilated area. Avoid breathing vapours.

7.2 Storage temperature- Room.

8. EXPOSURE CONTROL/PPE

<u>Component</u>	<u>Exposure limits</u>
8.1- Isopropanol	ACGIH-STEL:400ppm ACGIH-TW A:200ppm OSHA-TW A:400ppm, 980 mg/m ³
8.2- Heptane	ACGIH-STEL:500ppm ACGIH-TW A:400ppm OSHA-TW A:500ppm, 2000 mg/m ³
8.3- Ethyl Acetate	ACGIH-TW A:400ppm OSHA-TW A:400ppm, 1400 mg/m ³

8.5- Ventilation- Local. Explosion-proof exhaust ventilation.

8.6- Eye protection- Chemical type goggles with face shield. Protect against splashing.

8.7- Glove requirements- Impervious neoprene or rubber gloves are recommended.

8.8 -Clothing requirements- Standard industrial hygiene procedures should be practiced.

8.9- Wash requirements- Wash before eating, drinking, or using toilet facilities.

8.10- Respiratory requirements- Avoid prolonged or repeated breathing of vapour or mists. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.

9. PHYSICAL CHEMICAL PROPERTIES

Pure substance or mixture- Mixture

9.0- Physical Form: Liquid

9.1- Colour: Colorless

9.2- Odor: Hydrocarbon

9.3- Boiling Point: > 82 degrees

9.4- Specific Gravity: 0.85 (WATER=1).

9.5- Flash Point: < -6°C (Setaflash Closed Tester).

9.6- Solubility: Slightly soluble in water.

9.7- Evaporation Rate: > 1 (n-Butyl Acetate = 1)

9.8- Vapour Pressure: 180@ 20°C (mmHg)

9.9- Vapour Density: 2.4 (air = 1)

9.10- Volatiles: 46%

10. STABILITY AND REACTIVITY

10.1 Stability: Stable.

10.2 Hazardous Decomposition Products: Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

11. TOXOLOGICAL INFORMATION

11.1 Eye- Isopropanol: Will cause eye irritation. Contact with eyes causes redness and discomfort which is transient.

Ethyl Acetate: Will cause eye irritation.

11.2 Skin contact- Isopropanol: May be absorbed through the skin. Repeated or prolonged skin contact may result in mild irritation. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.

Ethyl Acetate: Irritating to the skin. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis. May be absorbed through the skin.

11.3 Inhalation- Isopropanol: Vapor may be irritant to the respiratory tract. The vapor has anesthetic properties and when inhaled at concentrations above the occupational exposure limit, it may cause respiratory irritation, headache, fatigue, dizziness and incoordination.

Ethyl Acetate: Respiratory irritant. Moderately toxic. The vapor has anesthetic properties and when inhaled at concentrations above the occupational exposure limit, it may cause respiratory irritation, headache, fatigue, dizziness and incoordination.

11.4 Ingestion- Isopropanol: May cause irritation of mouth, throat and digestive tract and depression of the central nervous system. Slightly toxic. May cause nausea, vomiting and diarrhea.

Ethyl Acetate: May cause irritation of mouth, throat and digestive tract and depression of the central nervous system. Slightly toxic. May cause nausea, vomiting and diarrhea.

12. ECOLOGICAL INFORMATION

12.1 Potential to bioaccumulate- Unknown.

12.2 Aquatic Toxicity- None Established.

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods: Disposal should be in accordance with local, state or national legislation.

13.2 Empty container warning- empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION
PROPER SHIPPING NAME- ADHESIVES
HAZARD CLASS- 3
U.N NUMBER- UN1133
PACKAGING GROUP- II

The information provided herein may not include the impact of additional regulatory requirements (e.g., for materials meeting the definition of a hazardous waste under RCRA, hazardous substances under CERCLA, and/or marine pollutants under CWA or other similar federal, state or local laws) or any associated exceptions or exemptions under regulations applicable to the transport of this material.

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

ADDITIONAL INFORMATION:

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

To the best of our knowledge at the date of printing, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.