MATERIAL SAFETY DATA SHEET
WOUND CLEANSING WIPES

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

2. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent	EINECS/ELINCS
7647 -14-5	Sodium chloride	0.9	231 -598 -3
7732 -18-5	Water	99.1	231 -791 -2

3. HAZARD INDENTIFICATION

3.1 Routes of Entry:
3.1.1 Inhalation: YES
3.1.2 Skin: YES
3.1.3 Ingestion: YES
3.2 Reports of Carcinogenicity:
3.2.1 NTP:NO
3.2.2 IARC:NO
3.2.3 OSHA:NO
3.3 Explanation of Carcinogenicity: NONE

4. FIRST AID MEASURES

4.1 Description of first aid measures
4.1.1 Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.
4.1.2 Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
4.1.3 Ingestion: Potential for aspiration if swallowed. Flush mouth with water.
4.1.4 Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

5. FIRE FIGHTING MEASURES

5.1 General Information: As in any fire, wear a self -contained breathing apparatus in pressure - demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire -exposed containers cool.
5.2 Extinguishing Media: use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. For small fires, use carbon dioxide, dry chemical, dry sand, or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

6.1 General Information: Use proper personal protective equipment as indicated in Section
6.2 Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Use water spray to dilute spill to a non-flammable mixture. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling.
Storage: Do not mix with other drugs.

8. EXPOSURE CONTROL/PPE

8.1 Respiratory Protection: Niosh approved respirator.
8.2 Ventilation: Local Exhaust.
8.3 Protective Gloves: Disposable Surgical Latex
8.4 Eye Protection: Safety Goggles
8.5 Other Protective Equipment: Disposable Protective Apparel
8.6 Work Hygienic Practices: Remove/Launder Contaminated Clothing Before Reuse.

9. PHYSICAL CHEMICAL PROPERTIES

9.1 pH: 4.5-7
9.2 Solubility in Water: Complete.
9.3Appearance and Odor: Clear colorless solution with odour.

10. STABILITY AND REACTIVITY

10.1 Chemical Stability: Stable.
10.2 Conditions to Avoid: Ignition sources, excess heat.
10.3 Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, strong bases, amines, ammonia, ethylene oxide, isocyanates, acetaldehyde, chlorine, phosgene. Attacks some forms of plastics, rubbers, and coatings; aluminum at high temperatures.
10.4 Hazardous Decomposition Products: Fume.
10.5 Hazardous Polymerization: Will not occur.

11. TOXOLOGICAL INFORMATION

Oral, rat: LD50 = > 4000 mg/kg;

12. ECOLOGICAL INFORMATION

Base on the ingredients, this product is not expected to be harmful to aquatic organisms or the aquatic environment.

13. DISPOSAL

Dispose according to local/national waste regulations as hazardous waste.

14.TRANSPORT INFORMATION

Transport as ordinary goods.

15.REGULATORY INFORMATION

Store in cool dry place.

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

MATERIAL SAFETY DATA SHEET
ABSORBENT GRANULES

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

2. HAZARD IDENTIFICATION

2.1 Physical hazards: Not classified.
2.2 Health hazards: Not classified.
2.3 Environmental hazards: Not classified.
3.4 **Emergency Overview:** To the best of our knowledge, information and data, we couldn't know the health and environmental hazards.

3. INFORMATION ON INGREDIENTS

Ingredient	Concentration	CAS No.	ECN No.
Acrylic Acid	9	9033-79-8	

4. FIRST AID MEASURES

4.1 Skin Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, seek medical advice.
4.2 Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, seek medical attention.
4.3 Inhalation Exposure: If inhaled, move to a ventilated area.
4.4 Oral Exposure: If swallowed, immediately wash out mouth with water provided person is conscious. Seek medical attention.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Water spray, Dry chemical, Carbon dioxide or appropriate foam.
5.2 Firefighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Uninvolved persons should evacuate to a safe place.

6. ACCIDENTAL RELEASE MEASURES

6.1 Procedure of Personal Precaution: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

6.2 Methods for Cleaning up: Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
6.3 Environmental precautions: Do not let product enter drains.

7. HANDLING AND STORAGE

7.1 Handling: Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid formation of dust. Avoid contact with eyes, skin and clothing. Keep away from ignition sources, heat and flame.
7.2 Incompatibilities: Strong oxidizing agents, bases. No smoking at working site.
7.3 Storage: Store in cool place. Keep container tightly closed in a dry and well ventilated place. Keep away from ignition sources, heat and flame.

8. EXPOSURE CONTROL/PPE

8.1 Engineering Controls: Mechanical exhaust required. Safety shower and eye bath.
8.2 Personal Protective Equipment:
8.2.1 Respiratory: Government approved respirator if needed.
8.2.2 Eye: Chemical safety goggles if needed.
8.2.3 Clothing: Wear appropriate protective clothing.
8.2.4 Hand: Protective gloves.
8.2.5 Other Protection: No smoking, drinking and eating at working site. Wash thoroughly after handling.

9. PHYSICAL CHEMICAL PROPERTIES

9.1 Appearance: Off-white granule crystal
9.2 Odour: Weak odour
9.3 Melting Point/"C: >35o·c
9.4 pH Value: Not applicable
9.5 Solubility: When react with water, curing phenomenon occurs.

10. STABILITY AND REACTIVITY

10.1 Stability: Stable under normal temperatures and pressures.
10.2 Conditions to Avoid: Moisture.
10.3 Materials to Avoid: Strong oxidizing agents, bases.
10.4 Hazardous Polymerization: Will not occur.
10.5 Hazardous Decomposition Products: Carbon oxides, Sodium oxides.

11. TOXOLOGICAL INFORMATION

11.1 Acute toxicity: No data available.
11.2 Skin corrosion/irritation: No data available.
11.3 Serious eye damage/irritation: No data available.
11.4 Bioaccumulate potential: No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available.

13. DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

This substance is considered to be non-hazardous for transport.

15. REGULATORY INFORMATION

Regulation (BC)No.1272/2008 and its amendments:
Not a hazardous substance or mixture according to this regulation.

16. OTHER INFORMATION

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

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MATERIAL SAFETY DATA SHEET
SANITISER SPRAY

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

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization

CAS#	Chemical Name	Percent
67-63-0	Isopropyl Alcohol	70%

3. HAZARD INDENTIFICATION

3.1 Emergency Overview:
Isopropyl Alcohol is flammable liquid and vapour. It is harmful is swallowed or inhaled. Causes irritation to the eyes and respiratory tract and effects the central nervous system. May be harmful is absorbed through the skin and may cause irritation to the skin.

3.2 Potential acute health effects:
3.2.1 Inhalation: Breathing in small amounts of this material during normal handling is not likely to cause harmful effects. However, breathing large amounts may be harmful and may affect the respiratory system and mucous membranes (irritation), behavior and brain (Central nervous system depression - headache, dizziness, drowsiness, stupor, incoordination, unconsciousness, coma and possible death), peripheral nerve and sensation, blood, urinary system, and liver.
3.1.2 Eye: Can cause eye irritation.
3.1.3 Skin: May cause mild skin irritation, and sensitisation.
3.1.4 Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Swallowing large amounts may cause gastrointestinal tract irritation with nausea, vomiting and diarrhea, abdominal pain. It also may affect the urinary system, cardiovascular system, sense.

3.3 Potential chronic health effects:
3.3.1 Carcinogenic Effects: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropyl alcohol].
3.3.2 Mutagenic Effects: Not Available
3.3.3 Teratogenic Effects: Not Available
3.3.4 Developmental Toxicity: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE] [Isopropyl alcohol]. The substance may be toxic to kidneys, liver, skin, central nervous system (CNS).

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

4.1.2 Skin contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

4.1.3 Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

4**.1.4 Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

5. FIRE FIGHTING MEASURES

5.1 General Information: As in any fire, wear a self -contained breathing apparatus in pressure - demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

5.2 Extinguishing Media: Small Fire: Use DRY chemical powder.

Large Fire: Use alcohol foam, water spray or fog.

5.3: Products of combustion: Carbon Oxides (C0, C02)

5.4 Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear). Keep personnel removed and upwind of fire. Water should be used to keep fire-exposed containers cool.

5.5 Fire and explosion hazards: Slightly explosive in presence of open flames and sparks, of heat. Non-explosive in presence of shocks. Vapor may travel considerable distance to source of ignition and flash back.

CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME.

Hydrogen peroxide sharply reduces the autoignition temperature of Isopropyl alcohol. After a delay, Isopropyl alcohol ignites on contact with dioxygenyl tetrafluoroborate, chromium trioxide, and potassium tert-butoxide. When heated to decomposition it emits acrid smoke and fumes. (Isopropyl alcohol). Secondary alcohols are readily auto-oxidized in contact with oxygen or air, forming ketones and hydrogen peroxide. It can become potentially explosive. It reacts with oxygen to form dangerously unstable peroxides which can concentrate and explode during distillation or evaporation. The presence of 2-butanone increases the reaction rate for peroxide formation. Explosive in the form of vapor when exposed to heat or flame. May form explosive mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

6.1 General Information: Use proper personal protective equipment indicated in Section 8.

6.2 Environmental precautions: Do not release to sewer, surface water or ground water.

6.3 Methods and materials for cleaning up spills:

6.3.1 Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

6.3.2 Large Spill: Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other noncombustible

material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Be careful that the product is not present at a concentration level above TLV.

7. HANDLING AND STORAGE

7.1 Precautions: Use proper personal protective equipment as indicated in Section 8.
7.2 Handling: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidising agents, acids.
7.3 Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. EXPOSURE CONTROL/PPE

8.1 Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
8.2 Exposure Limits:
Isopropyl Alcohol
TWA: 983 STEL: 1230 (mg/mÑ) [Australia]
TWA: 200 STEL: 400 (ppm) from ACGIH (TLV) [United States] [1999]
TWA: 980 STEL: 1225 (mg/mÑ) from NIOSH
TWA: 400 STEL: 500 (ppm) from NIOSH
TWA: 400 STEL: 500 (ppm) [United Kingdom (UK)]
TWA: 999 STEL: 1259 (mg/mÑ) [United Kingdom (UK)]
TWA 400 STEL: 500 (ppm) from OSHA (PEL) [United States]
TWA 980 STEL: 1225 (mg/mÑ) from OSHA (PEL) [United States]

8.3 Personal Protection Equipment:
8.3.1 Eye and Face Protection: Safety Glasses (with Side Shields)
8.3.2 Skin Protection: Protective Gloves
8.3.3 Body Protection: Lab Coat
8.3.4 Respiratory Protection: Vapor Respiratory if necessary
8.3.5 Ventilation Protection: Use general ventilation under normal use condition
8.3.6 Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
8.3.7 Ventilation: Local exhaust: MSHA/NIOSH approved respirator. Appropriate respirator depends upon type and magnitude of exposure.

9. PHYSICAL CHEMICAL PROPERTIES

9.1 Appearance: Transparency Liquid
9.2 Colour: Colourless
9.3 Odour: The odour of a mixture of ethanol and acetone

9.4 pH: Not available
9.5 Melting Point: -88.5°C as isopropyl alcohol
9.6 Boiling Point: 82.5°C as isopropyl alcohol
9.7 Density: Not available
9.8 Vapour Pressure: Not available
9.9 Partition Coefficient (n -octanol/water): Not available
9.10 Solubility(ies): Soluble in water
9.11 Flash Point: Closed cup: 18.3°C - 24°C
9.12 Auto-ignition Temperature: 399°C as isopropyl alcohol
9.13 Flammability: Not available
9.14 Explosive Properties: Not available
9.15 Oxidising Properties: No Information available
9.16 Viscosity: Not available

10.STABILITY AND REACTIVITY

10.1 Stability: Stable under normal conditions
10.2 Polymerisation: Will not occur
10.3 Dangerous Decomposition Products: Not available
10.4 Conditions to Avoid: Heat, flame, ignition, sources, incompatible materials
10.5 Incompatible Materials: Reactive with oxidising agents, acids, alkalis
10.6 Special Remarks on Reactivity: Reacts violently with hydrogen plus palladium combination, nitroform, oleum, COCI2, aluminum triisopropoxide, oxidants Incompatible with acetaldehyde, chlorine, ethylene oxide, isocyanates, acids, alkaline earth, alkali metals, caustics, amines, crotonaldehyde, phosgene, ammonia. Isopropyl alcohol reacts with metallic aluminum at high temperatures. Isopropyl alcohol attacks some plastics, rubber, and coatings. Vigorous reaction with sodium dichromate plus sulfuric acid. (Isopropyl alcohol).

11.TOXOLOGICAL INFORMATION

Please refer to section 3 for Hazards Identification.
11.1 Routes of Entry: Absorbed through skin. Eye contact. Inhalation
11.2 Toxicity to Animals: Acute oral toxicity (LD50): 5143 mg/kg (Mouse)
Acute dermal toxicity (LD50): 18286 mg/kg (Rabbit)
11.3 Chronic Effects on Humans:
11.3.1 CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Isopropyl alcohol].
11.3.2 DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE] [Isopropyl alcohol]. Contains material which may cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS).
11.4 Other Toxic Effect on Humans: Not available
11.5 Special Remarks on Toxicity to Animals: Not available
11.6 Special Remarks on Chronic Effects on Humans: May cause adverse reproductive I teratogenic effects (fertility, fetoxicity, develop mental abnormalities (developmental toxin)) based on animal studies. Detected in maternal milk in human. (Isopropyl alcohol)
11.7 Special Remarks on other Toxic Effects on Humans: Not available

12.ECOLOGICAL INFORMATION

12.1 Ecotoxicity Effects: Not available
12.2 BOD5 and COD: Not available
12.3 Bioaccumulation: Not available
12.4 Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise.
12.5 Toxicity of the product of Biodegradation: The product itself and its products of degradation are not toxic.

13. DISPOSAL

13.1 General Information: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
13.2 Waste Disposal Methods: Dispose according to Federal, State, Provincial and Local regulations.

14.TRANSPORT INFORMATION

14.1 Proper Shipping Name: Not available
14.2 Hazard Class: Not available
14.3 UN. No.: Not available
14.4 Packing Group: Not available
14.5 IMDG EMS: Not available

15.REGULATORY INFORMATION

15.1 EUROPEAN

European/International Regulations: This product is on the European Inventory of Existing Commercial Chemical Substances.
European Labeling in Accordance with EC Directives
Hazard Symbols: HIGHLY FLAMMABLE SYMBOL
Isopropyl alcohol:
Risk Phrases: R11 - Highly flammable
R36 - Irritating to eyes
Safety Phrases: S2 - Keep out of reach of children
S46 - If swallowed, seek medical advice immediately and show this container or label.

15.2 USA

HMIS (U.S.A.): Health Hazard: 1
Fire Hazard: 1
Reactivity: 0
Personal Protection: E

National Fire Protection Association (U.S.A.): Health: 1
Flammability: 1
Reactivity: 0

15.2 CANADA

Canada - WHMIS: Class B-2 Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2B Material causing other toxic effects (TOXIC).

For details regulations you should contact the appropriate agency in your country.

16.OTHER INFORMATION

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

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