



Material Safety Data Sheet

Reusable Hot & Cold Compress

Section 1 – Chemical Product and Company Identification

Sample Name: Reusable Hot & Cold Compress

Company Identification: Reliance Medical Ltd

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Section 2 – Composition, Information on Ingredients

Chemical Name	Percent (by weight)	CAS No.	EC#	MITI No.
Sodium Carboxymethyl Cellulose	≥1%	9004-32-4	Unlisted	-
Water	≥50%	7732-18-5	231-791-2	-
Glycerin	≥20%	56-81-5	200-289-5	

Section 3 – Hazards Identification

EMERGENCY OVERVIEW

Potential Acute Health Effects: Hazardous in case of skincontact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Hazard Sorts: None.

Potential Health Effects:

- Eye: May cause eye irritation.
- Skin: May cause skin irritation. Low hazard for usual industrial handling.
- Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.
- Inhalation: May cause irritation of the upper respiratory tract and bronchi.



Section 4 – First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do not allow victim to rub eyes. Check for and remove any contact lenses if easily possible. Get medical aid if symptoms occur.

Skin: If a reaction with skin contact occurs, immediately flush skin with soap and water. Seek medical attention if irritation persists.

Inhalation: If inhaled, remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: If swallowed, induce vomiting under the guidance of professional doctors. If the injured is fully conscious: wash mouth out with water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Section 5 – Fire Fighting Measures

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

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

Section 6 – Accidental Release Measures

General Information: Review Section 5 and Section 7 before proceeding with clean-up. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up material carefully, and then place into a suitable disposal container for disposal. Avoid generating dusty conditions. If appropriate, moisten first to prevent dusting. Contaminated floor may fume. Provide ventilation.

Section 7 – Handling and Storage

General Information: This product should be stored and handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.



Storage: Store in a closed container. Store in a cool, dry, well-ventilated area away from incompatible substances, food, drink and dust/impurities. Inspect regularly for deficiencies such as damage or storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Store protected from moisture.

Handling: Ensure good local exhaust ventilation. Handle and open container with care. Keep container closed and away from incompatible substances, food, drink and dust/impurities. Protect from humidity and water. Minimize dust generation and accumulation. Avoid dust contact with eyes. Avoid breathing dust and fume. Avoid ingestion. Remove contaminated clothing and wash before reuse. Empty containers retain product residue. The work area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

Section 8 – Exposure Controls, Personal Protection

Exposure Limit: No exposure limits is listed for this product.

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Glycerine	10 mg/m ³ TWA	no established RELs - see Appendix D	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)

Monitoring Methods: No information found.

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment:

- **Eyes:** Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling product.
- **Skin and Clothing:** Wear appropriate protective clothing, and gloves to prevent skin contact.
- **Respirators:** An appropriate respirator or mask should be used whenever workplace conditions warrant a respirator's use. A full face positive pressure supplied-air respirator or a self contained breathing apparatus should be used when large spilled or fire.
- **Other Protection:** To maintain good health habits. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.



Section 9 – Physical and Chemical Properties

Physical State: Gel, odorless.

Molecular Formula: Mixture.

Molecular Weight: N/A

PH: N/A

Flash Point: N/A

Boiling Point: N/A

Melting Point: Decomposes

Density: N/A

Relative density (air=1): N/A

Explosion Limits [% (V/V)]: N/A

Water Solubility: N/A

Chemical Uses: Physical Cooling.

Section 10 – Stability and Reactivity

Chemical Stability: The product is stable.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Hazardous Polymerization: No.

Section 11 – Toxicological Information

Toxicological Information:

Composition: CAS# 9004-32-4

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 27000 mg/kg [Rat].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Nuisance dust.

Composition: CAS#56-81-5

LD50/LC50:

Draize test, rabbit, eye: 126 mg Mild;



Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
Inhalation, rat: LC50 = >570 mg/m³/1H;
Oral, mouse: LD50 = 4090 mg/kg;
Oral, rabbit: LD50 = 27 gm/kg;
Oral, rat: LD50 = 12600 mg/kg;
Skin, rabbit: LD50 = >10 gm/kg;<BR.
Carcinogenicity:
CAS# 56-81-5: Not listed by ACGIH,IARC, NIOSH, NTP, or OSHA.
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.
Other Studies: No data available.
Composition: CAS#7732-18-5
- RTECS# ZC0110000
- LC50: >90 ml/kg (Oral, rat)

Section 12 – Ecological Information

Ecological Toxicity: Not available.Cas# 56-81-5:LC50 (96 Hr.) rainbow trout = 50-67 mg/L;
12 degrees CLC50 (96 Hr.) goldfish = >5000 mg/L
Ecological Degradation: Not available.
Biology Degradation: Possibly hazardous short term degradation products are not likely.
However, long term degradation products may arise.
Environmental: Not available.

Section 13 – Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. 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. Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.
RCRA P-Series: None listed.
RCRA U-Series: None listed.



Section 14 – Transport Information

Not regulated as a hazardous material for transportation. (TDG; IMDG CODE; IATA DGR)

UN Number: N/A

UN Proper Shipping Name: N/A

UN Classification: N/A

Packing Group: N/A

Packaging Sign: N/A

Transport Fashion: N/A

Section 15 – Regulatory Information

Regulatory Information: Reference to the local, national, US, EU, CA, Japan and international regulations.

CAS# 9004-32-4

Federal and State Regulations: TSCA 8(b) inventory: Carboxymethyl cellulose sodium

Other Regulations: Not available..

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves; Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

CAS# 56-81-5

US FEDERAL

TSCA

CAS# 56-81-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules



None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 56-81-5: chronic.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 56-81-5 can be found on the following state right to know lists: Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 56-81-5: 0

Canada

CAS# 56-81-5 is listed on Canada's DSL List. CAS# 56-81-5 is listed on Canada's DSL List.

This product does not have a WHMIS classification.

CAS# 56-81-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 56-81-5: OEL-AUSTRALIA:TWA 10 mg/m³ OEL-BELGIUM:TWA 10 mg/m³
OEL-FINLAND:TWA 20 mg/m³, OEL-FRANCE:TWA 10 mg/m³, OEL-THE NETHERLANDS
:TWA 10 mg/m³, OEL-UNITED KINGDOM:TWA 10 mg/m³, OEL IN BULGARIA, COLOM



Section 16 – Additional Information

Issue Time: 2010-02-01

Issue Department: Technical department

Data review unit:

Modification record:

Notice to reader

To the best of our knowledge, 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 completeness 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.

Other Information:

ACGIH: (American Conference of Governmental Industrial Hygienists); CAS (Chemical Abstracts Service); DSL: (the Domestic Substances List of Canada); EC: (European Commission); ENCS: (MITI No.): (Existing and New Chemical Substances of Japan); IARC: (International Agency for Research on Cancer); IATA: (International Air Transport Association); IECSC: (Inventory of Existing Chemical Substances in China); IMDG: (International Maritime Dangerous Goods); LD50: (Lethal dose, 50 percent kill); MAC: (Maximum allowable concentration); NDSL: (the Non-domestic Substances List of Canada); NIOSH: (US National Institute for Occupational Safety and Health); NTP: (US National Toxicology Program); OSHA: (US Occupational Safety and Health); PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit); RTECS: (Registry of Toxic Effects of Chemical Substances); STEL: (Short Term Exposure Limit); TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations); TSCA: (Toxic Substances Control Act of USA); TWA: (Time Weighted Average); TLV: (Threshold Limit Value)

