**SDS DATE: 11/4/2015**

This safety data sheet complies with the requirements of 29CFR1910.1200.

## 1.0 IDENTIFICATION

**PRODUCT NAME**: McKesson Cold Compress
**MFR #:** 59-57C, 59-79C, 16-9701, 16-9702, 16-9703

**DISTRIBUTED BY:** McKesson Medical-Surgical Inc.
9954 Mayland Drive, Suite 4000
Richmond, Virginia 23233

**INFORMATION LINE:** 1-800-777-4908
Monday – Friday 8:00 a.m. – 6:00 p.m. EST

**EMERGENCY PHONE:** 1-800-451-8346 (3E Company)
Day or night

**PRODUCT DESCRIPTION:** McKesson Cold Compress

## 2.0 HAZARDS IDENTIFICATION

**CLASSIFICATION**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classifications**

| | |
|---|---|
| Oxidizing Solid | Category 3 |
| Eye Irritation | Category 2 |

**Label Elements**

Pictograms

**Signal Word**

Warning

**Hazard Statements – Chemical from damages, un-activated cold pack may have the following hazards:**

May intensify fire; oxidizer

Causes serious eye irritation if contacted.

May be harmful if inhaled or swallowed.

May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

Contains material which may cause adverse blood system effects.

**Precautionary Statements – Prevention**
Keep away from heat/sparks/open flames/hot surfaces.
Store away from combustible materials.
Use personal protective equipment as required.
Wash face, hands and exposed skin thoroughly after handling.

**Precautionary Statements – Response**
If exposed or concerned: get medical attention.
If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing.
If swallowed: contact Poison Control or doctor/physician. Rinse mouth.

**Precautionary Statement – Disposal**
Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC)**
Not applicable

**Other information**

- Read entire SDS for more information regarding this product.

## 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** N/A

**Substance: Mixture**

| CHEMICAL NAME | CAS NO. | WEIGHT (%) |
|---|---|---|
| Ammonium Nitrate | 6484-52-2 | 40-70 |
| Water | 7732-18-5 | 30-60 |

***59-57C and 59-79C only***

| CHEMICAL NAME | CAS NO. | WEIGHT (%) |
|---|---|---|
| Ammonium Nitrate | 6484-52-2 | Max 78 |
| Magnesium Nitrate | 13446-18-9 | Not provided |
| Dolomite | 16389-88-1 | Not provided |

## 4.0 FIRST AID MEASURES

**DESCRIPTION OF FIRST AID MEASURES**

| | |
|---|---|
| **General Advice** | Under conditions of normal use, no hazards are anticipated which require special first aid measures. Get medical attention if any symptoms develop or persist. Always have plenty of water available for first aid. |
| **Eye Contact** | Not an expected route of exposure. Chemical from damaged un-activated cold pack may have the following hazards: direct contact may cause slight redness. Chemical from damaged, activated cold pack may have the following hazards: contact with eyes may cause irritation. Symptoms may include: inflammation of eye tissue, characterized by redness, watering and/or itching. Recommended first aid exposure to chemical from damaged cold pack. Immediately flush eyes with plenty of water fo rat least 15 minutes lifting upper and lower eyelids occasionally. Get medical attention. |
| **Skin Contact** | Not an expected route of exposure. Chemical from damaged un-activated cold pack may have the following hazards: may cause mild skin irritation, red, puffy, itchy skin. Chemical from damaged activated cold pack may have the following hazards: prolonged contact may casue numbness, causes little or no irritation. Recommended first aid for exposure to chemical from damaged cold pack: flush with water for at least 15 minutes, while removing contaminated clothing. If irritation occurs or persists, seek medical attention. |
| **Inhalation** | Not an expected route of exposure. Chemical from damaged, un-activated cold pack may have the following hazards: inhalation of dust may cause shortness of breath, tightness of chest, a sore throat and cough. Imitating or noxious gases may be released during thermal decomposition. Inhalation of high concentrations may cause unconsciousness and cyanosis. Recommended first aid from chemical from damaged cold pack: immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention. |
| **Ingestion** | Not an expected route of exposure. Harmful effects not expected under normal usage. Chemical from damaged cold |

pack may cause the following hazards: May cause irritation of mouth, throat and stomach. Symptoms may include mausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression. Ingestion of large quantities of nitrates may affect oxygen transport in the blood system, causing methemoglobinemia. Large doses can cause shock, convulsions, coma and eventual death. Recommended first aid for exposure to chemical from damaged cold pack: do not induce vomiting. Have victim rinse mouth with water, and then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

| | |
|---|---|
| **Symptoms** | Harmful effects are not expected under normal usage. |
| Conditions aggravated by overexposure | Pre-existing skin, eye and respiratory disorders. |

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

| | |
|---|---|
| **Note to Physicians** | Treat symptomatically. Nitrates in large doses may cause significant vasodialation and hypotension. Pre-existing ischemic heart disease may be aggravated by these effects. In large ingestions, nitrates may cause methemoglobinemia. Methemoglobinemia should be suspected if cyanosis occurs. Methylene blue (1-2mg/kg IV over several minutes) is an effective antidote for symptomatic methemoglobinemia. |

## 5.0 FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA**

Use water spray to fight fires. Use chemical extinguishing agents with caution. Some chemical extinguishing agents may accelerate decomposition.

**Unsuitable extinguishing media:** None

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

Explosive decomposition may occur under fire conditions. Heat of decomposition may cause closed containers to build up pressure and explode. Chemical from damaged, un-activated cold packs may have the following hazards: strong oxidizer which will promote combustion. Contact with combustible material may cause fire. This product reacts with acids evolving considerable heat.

**Explosion data**

| | |
|---|---|
| Sensitivity to Mechanical Impact | None |

| | |
|---|---|
| Sensitivity to Static Discharge | None |

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS**

Fight fires from a safe distance. Evacuate personnel to safe area. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

## 6.0 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

| | |
|---|---|
| **Personal Precautions** | Ensure clean up is performed by trained personnel only. Keep all other personnel upwind and away from the spill/release. Wear suitable protective equipment. |
| **Other Information** | Pick up loose items and place in container for disposal. |
| **For Emergency Responders** | Use personal protective equipment as required. |
| **ENVIRONMENTAL PRECAUTIONS** | Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. |

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

| | |
|---|---|
| **Methods for Containment** | Collect material for disposal. Do not use combustible absorbents such as sea dust. |
| **Methods for Cleaning up** | Ventilate area of release. Remove all sources of ignition. Remove combustible materials. Use only non-combustible absorbent material, such as vermiculite or sand, then place absorbent material into a container for later disposal. Use methods that do not generate dusts. Notify appropriate authorities as required. |

## 7.0 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING**

| | |
|---|---|
| **Advice on Safe Handling** | Use in a well ventilated area. Protect from damage. Keep away from heat and flames. Keep away from combustible |

material. Recommended handling procedures when cold pack damaged: wear suitable protective clothing. Avoid breathing dust, vapor or mist. Do not ingest. Avoid contact with skin, eyes, clothing. Never return material to original container. Label containers appropriately. Wash hands thoroughly after handling.

**CONDITIONS FOR SAFE STORAGE**

| | |
|---|---|
| **Storage Conditions** | Store in a cool dry, well ventilated area. Store away from incompatibles and out of direct sunlight. Inspect periodically for damage and leaks. No smoking in area. Protect from damage. |
| **Incompatible Materials** | Acids, reducing agents, combustible materials, organic materials, reactive materials, fuel, halogenated compounds, copper. |

## 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

**CONTROL PARAMETERS**

| | |
|---|---|
| **Exposure Guidelines** | Not Available |
| **APPROPRIATE ENGINEERING CONTROLS** | Not a hazard under normal conditions of use. |

**INDIVIDUAL PROTECTION MEASURES, SUCH AS PPE**

| | |
|---|---|
| **Eye/Face Protection** | Wear safety glasses with side shields (or goggles) |
| **Skin and Body Protection** | Gloves impervious to the material are recommended. The suitability for a specific workplace should be discussed with the producers of protective gloves. |
| **Respiratory Protection** | Not available |
| **General Hygiene Considerations** | Handle in accordance with good industrial hygiene and safety practice. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standard. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, fumes or dust. Do not eat, drink or smoke when using this product. Wash hands before breks and |

immediately after handling the product. Wear only clean, uncontaminated clothes when leaving place of work.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

| | |
|---|---|
| **Physical State** | Solid/Liquid |
| **Appearance** | Solid in water bag |
| **Color** | No data |
| **Odor** | None |
| **Odor Threshold** | No data available |

| Property | Values | Remarks |
|---|---|---|
| pH (1-3% aqueous solution) | No data available | |
| Melting point/freezing point | No data available | |
| Boiling point/boiling range | Not applicable | |
| Flash point | None | |
| Evaporation rate | No data available | |
| Flammability (solid, gas) | Not applicable | |
| Flammability Limit in Air<br>• Upper flammability limit<br>• Lower flammability limit | Not applicable | Not Flammable |
| Vapor pressure | Not applicable | |
| Vapor density | Not applicable | |
| Specific Gravity | 1.3 | |
| Water solubility | 100% | |
| Solubility in other solvents | No information available | |
| Partition coefficient | Not applicable | |
| Autoignition temperature | Not applicable | |
| Decomposition temperature | Not applicable | |
| Kinematic viscosity | Not applicable | |
| Dynamic viscosity | Not applicable | |
| Explosive properties | Not applicable | |
| Oxidizing properties | Not applicable | |
| Softening point | Not applicable | |
| Molecular weight | Not applicable | |
| VOC Content (%) | Not applicable | |
| Density | Not applicable | |
| Bulk Density | 0.9g/cc | |

## 10.0 STABILITY AND REACTIVITY

**CHEMICAL STABILITY**

Stable under normal condition of handling, use and transport. Chemical from damaged, un-activated cold pack may have the following hazards: strong oxidizer which will promote

combustion. Contact with combustible material may cause fire.

**POSSIBILITY OF HAZARDOUS REACTIONS** None under normal processing.

**Hazardous polymerization** Not expected under prescribed storage and handling conditions. Decomposition may occur at extremely high temperatures.

**CONDITIONS TO AVOID** Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Keep out of direct sunlight. Keep away from combustible material. Incompatible materials and dust generation.

**INCOMPATIBLE MATERIALS** Avoid contact with reactive, combustible or organic materials such as wood, grain, organic chemicals, acids, corrosive liquids, sulfur, flammable liquids, chlorates, permanganates, finely divided materials, charcoal, coke, cork, or sawdust. Avoid contact with other oxidizers. Contact with alkaline materials may liberate urea.

**HAZARDOUS DECOMPOSITION PRODUCTS** Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat my liberate urea fumes.

## 11.0 TOXICOLOGICAL INFORMATION

**INFORMATION ON LIKELY ROUTES OF EXPOSURE**

**Product Information** There is no available data for the product itself.

**Inhalation** Not available.
**Eye Contact** Not available.
**Skin Contact** Not available.
**Ingestion** Not available.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ammonium Nitrate<br>6484-52-2 | >2217 mg/kg<br>(rat) 4 h | N/A | ➢ 88800 mg/m3,<br>(rat) 4 h |

**INFORMATION ON TOXICOLOGICAL EFFECTS** No information available.

**DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE**

**Skin corrosion/irritation** Very slight skin irritation

| | |
|---|---|
| **Serious eye damage/eye irritation** | Very slight eye irritation |
| **Irritation** | Mild skin irritant. May cause eye irritation. |
| **Corrosivity** | Not classified. |
| **Sensitization** | Not expected to be a skin or respiratory sensitizer. |
| **Germ cell mutagenicity** | Not classified. |
| **Carcinogenicity** | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |
| **Reproductivity Toxicity** | Not expected to have other reproductive effects. |
| Developmental Toxicity | Not expected to be mutagenic in humans. |
| Teratogenicity | Not expected to be a teratogen. |
| **STOT- single exposure** | Not classified. |
| **STOT – repeated exposure** | Not classified. |
| Chronic Toxicity | No known effect. |
| Sub-chronic Toxicity | No known effect. |
| Target Organ Effects | No known effects under normal conditions. |
| Neurological Effects | Not applicable. |

**NUMERICAL MEASURES OF TOXICITY** See product information.

## 12.0 ECOLOGICAL INFORMATION

| | |
|---|---|
| **Environmental effects** | This product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface water. |
| **Bioaccumulation** | No data available |
| **Mobility** | No data available |
| **Ecotoxicological** | No data available |
| **Other adverse effects** | No information available |

## 13.0 DISPOSAL CONSIDERATIONS

**WASTE TREATEMENT METHODS**

| | |
|---|---|
| **DISPOSAL OF WASTE** | Handle waste according to recommendations in section 7. Empty containers retain residue (liquid and vapor) and can be dangerous. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, |

state, provincial or federal environmental agency for specific details. If this product as supplied becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

**State of California Hazardous Waste Status** Not applicable

## 14.0 TRANSPORT INFORMATION

**NOTE: THIS MATERIAL LIS NOT SUBJECT TO REGULATION AS A HAZARDOUS MATERIAL FOR SHIPPING.**

| | |
|---|---|
| **DOT** | UN1942, Ammonium Nitrate, Limited Quantity, III<br>As supplied, this product can be shipped as a limited quantity in the United States. The UN number placed within the square-on-point border appearing here, or the proper shipping name, must appear on the package in accordance with 49 CFR 172.315. |
| **TDG** | UN1942, Ammonium Nitrate, 5.1, III<br>Within Canada only, this product may be shipped according to the 500Kg Gross Mass Exemption. Each means of containment must be marked with either the dangerous goods safety marks required by Part 4 of the Proper shipping name. The dangerous goods must be accompanied by a proper shipping document. Refer to TDG section 1.16 for detailed information on this exemption. If shipping by ground to destinations outside Canada, the limited quantity exemption may be used. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption. |
| **MEX** | Not regulated |
| **ICAO** | UN1942, Ammonium Nitrate, 5.1, III |
| **IATA** | UN1942, Ammonium Nitrate, 5.1, III<br>Refer to ICAO/IATA pack instruction: Y516, 616 or 518.<br>Review all state and operator variations, prior to shipping this material. |
| **IMDG** | Not regulated |
| **RID** | Not regulated |
| **ADR** | Not regulated. European requirement only. |
| **AND** | Not regulated. European requirement only. |

## 15.0 REGULATORY INFORMATION

**INTERNATIONAL INVENTORIES**

| | |
|---|---|
| **TSCA** | All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) inventory. |
| **DSL/NDSL** | All ingredients listed. |

**LEGEND**

**TSCA –** United States Toxic Substances Control Act Section 8b Inventory
**DSL/NDSL –** Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS –** European Inventory of Existing chemical Substances/European List of Notified Chemical
**ENCS –** Japan Existing and New Chemical Substances
**IECSC -** China Inventory of Existing Chemical Substances
**KECL -** Korean Existing and Evaluated Chemical Substances
**PICCS –** Phillipines Inventory of Chemicals and Chemical Substances
**AICS –** Australian Inventory of Chemical Substances
**CEPA** – Canadian Environmental Protection Act

**US FEDERAL REGULATION**

**SARA 313**

Section 303 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372.

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic Health Hazard** | Yes |
| **Fire Hazard** | No |
| **Sudden release of pressure hazard** | No |
| **Reactive Hazard** | Immediate |

**CWA (Clean Water Act)**

Data not available

**CERCLA**

This material as supplied does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**OSHA**

This material is not classified as hazardous under OSHA regulation (29CFR Part 1910.1200). This product is considered an “article” under 29 CFR 1910.1200.

**US STATE REGULATIONS**

**CALIFORNIA PROPOSITION 65**

This product does not contain any Proposition 65 chemicals.

**NEW JERSEY LABELING REQUIREMENTS**

Ammonium Nitrate (6482-52-2)
Water (7732-18-5)

**US RIGHT TO KNOW REGULATIONS**

| | |
|---|---|
| Ammonium Nitrate (6484-52-2) | Massachusetts, Rhode Island, Pennsylvania |

**US EPA LABEL INFORMATION** Not applicable.

## 16.0 OTHER INFORMATION

**NFPA**

| | |
|---|---|
| **Health Hazards** | **1** |
| **Flammability** | **0** |
| **Instability** | **3** |
| **Special Hazards** | **OX** |

**HMIS**

| | |
|---|---|
| **Health Hazards** | **1** |
| **Flammability** | **0** |
| **Reactivity** | **3** |
| **Physical Hazards** | **Not rated** |
| **Personal Protection** | **Not rated** |

**Prepared by**

Cypress Medical Products, LLC Quality Assurance

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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