

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

073068947

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

073068954



**Telephone:** (845) 365-8200 \* **Website:** [www.dynarex.com](http://www.dynarex.com)  
**Toll Free:** (888) DYNAREX \* **Website:** [www.thcnet.com](http://www.thcnet.com)  
**Fax:** (845) 365-8201

## Material Safety Data Sheet

Reviewed on 4/15/13

Dtd. 2012

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Instant Cold Packs  
**Product Use:** An economical, one time use disposable product that promotes faster healing for the treatment of bruises, cuts, lacerations, sprains, minor burns, sinus & tension headaches, insect bites and toothaches.  
**Product Codes:** 4511-4512-4515  
**Responsible Party:** Dynarex Corporation  
10 Glenshaw Street  
Orangeburg, NY 10962  
**Emergency or Information Phone No.:** (888)-DYNAREX or 845-365-8200 (Mon – Fri).  
At other times, contact the local Poison Control Center.

### EMERGENCY OVERVIEW

**Emergency Telephone Numbers:**  
Local Emergency Center

**Health Hazards:** Dry chemical of cold pack is an eye and skin irritant. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Physical Hazards:** Dry chemical is an oxidizer. Oxidizers can support combustion. Contact may increase flammability of other materials. Avoid contact with clothing and other combustible material.

- Physical Form: Solid/Liquid
- Appearance: White solid in water bag
- Odor: None

NFPA HAZARD CLASS:	Health:	1 (Slight)
	Flammability:	0 (Least)
	Reactivity:	3 (High)
	Other:	OXY (Oxidizer)



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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>% Weight</u>	<u>EXPOSURE GUIDELINE</u>		
		<u>Limits</u>	<u>Agency</u>	<u>Type</u>
Ammonium Nitrate CAS# 6484-52-2	40-70	Not Established		
<u>OTHER COMPONENTS</u>	<u>% Weight</u>	<u>EXPOSURE GUIDELINE</u>		
		<u>Limits</u>	<u>Agency</u>	<u>Type</u>
Water CAS# 7732-18-5	30-60	Not Established		

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or you local agencies, for further information.

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

Keep out of reach of children. (S2)

### PRIMARY ROUTE(S) OF ENTRY

Eye and Skin, if liquid escapes from sealed container.  
No hazard expected with intact product.

### EYES

Liquid content may cause irritation to the eyes; R36.  
Avoid contact with eyes; S25

### SKIN

Liquid content may be irritating to skin; R38.

### INGESTION

Harmful if swallowed; R22.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

In case of accidental overdose, contact a Physician or Poison Control Center.

## 4. FIRST AID MEASURES

**Eye:** Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

**Skin:** Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap or water. If irritation or redness develops, seek medical attention.



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**Inhalation (Breathing):** If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion (Swallowing):** If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestion of large amounts (more than 5 ounces in an adult) under direction from a physician or poison center. If possible, do not leave victim unattended and observe closely for adequacy of breathing.

**Note to Physicians:** Nitrates in large doses may cause significant vasodilation 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 (1-2 mg/kg I.V. over several minutes) is an effective antidote for symptomatic methemoglobinemia.

## 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Flash Point: **None**  
OSHA Flammability Class: **Not applicable**  
LEL/UEL: **No data**  
Autoignition Temperature: **No data**

**Unusual Fire & Explosion Hazards:** Oxidizer. The dry chemical of this material is an oxidizer and may increase inflammability of any combustible substance. It is the nature of oxidizers to provide their own oxygen source; smothering a fire may be ineffective. Nitrate salts support combustion under certain conditions. Ammonium nitrate is capable of detonation if heated under confinement or if subjected to strong shocks. Organic or other easily oxidizable matter can sensitize it to a more readily explodable state. Do not allow product to evaporate to dryness, especially in contact with combustible materials.

**Extinguishing Media:** Use water only. Do not use dry chemical, carbon dioxide or foam.

**Fire Fighting Instructions:** For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

## 6. ACCIDENTAL RELEASE MEASURES

The dry chemical of this material is an oxidizer. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify person down wind of spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective



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equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended.

## 7. HANDLING AND STORAGE

**Handling:** Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Container should be disposed in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA Regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, welding, or other contemplated operations.

**Storage:** Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Post area "No Smoking or Open Flame." Solution is corrosive to copper, copper alloys, lead, and zinc. Store to avoid contact with incompatible materials such as ordinary combustibles, flammable liquids, greases, and those materials, including other oxidizers, that could react with the oxidizer or catalyze its decomposition (see Section 10). Prohibit accumulation of combustible waste in storage areas. Combustible construction materials that may be in contact with oxidizers shall be protected with a compatible coating to prevent impregnation of the combustible materials by the oxidizers. Protect container(s) against physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** If current ventilation practices are not adequate to minimize exposure, additional ventilation or exhaust systems may be required.

### Personal Protective Equipment (PPE):

**Respiratory:** A NIOSH/MSHA approved air purifying respirator with a N95 filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2). Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin:** The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation, absorption, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.





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**Eye/Face:** Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

**Other Protective Equipment:** A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: **None**

Flammable/Explosive Limits (%): LEL/UEL: **No data**

Autoignition Temperature: **No data**

Appearance: **White solid in water bag**

Physical State: **solid/Liquid**

Odor: **None**

pH: **No data**

Vapor Pressure (mm Hg): **No data**

Boiling Point: **No data**

Freezing/Melting Point: **No data**

Solubility in Water: **100%**

Specific Gravity: **approx 1.3**

Evaporation Rate (nBuAc=1): **No data**

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of storage and handling. Dry chemical is an oxidizer and may promote combustion in other materials.

**Conditions To Avoid:** This material may be an oxidizer. Do not heat above 250°F. Do not let dry chemical or solution dry or crystallize in contact with organic, reactive, or combustible materials (see Sections 7).

**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 ammonia.

**Hazardous Decomposition Products:** Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat may liberate ammonia fumes.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.



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## 12. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, may be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. To assure proper disposal, consult with state and local regulations and disposal authorities.

## 13. TRANSPORT INFORMATION

PROPER SHIPPING NAME: DOT CONSUMER COMMODITY  
CLASS/DIVISION: ORM-D  
PACKING GROUP: Not Applicable  
LABELS: ORM-D  
UN/ID#: NONE

PROPER SHIPPING NAME: IATA AMMONIUM NITRATE  
CLASS DIVISION: 5.1  
PACKING GROUP: III  
LABELS: OXIDIZER  
UN/ID#: UN1942

PROPER SHIPPING NAME: IMO AMMONIUM NITRATE, LIMITED QUANTITY  
CLASS/DIVISION: 5.1  
PACKING GROUP: III  
LABELS: Not required, however, the words "LIMITED QUANTITY" should be marked on the unitized package.  
UN/ID#: UN1942

## 14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of **SARA 313** and 40 CFR 372.

COMPONENT	CAS NUMBER
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Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)	7446-41-7
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Water dissociable nitrate compounds	None
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**Warning:** This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5)

--None Known--

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

**EPA (CERCLA) Reportable Quantity:** --None--



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## 15. DOCUMENTARY INFORMATION

Product Code: Various Private Label

## 16. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Dynarex Corp. assumes no legal responsibility or liability resulting from its use. This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200). Use product for intended purpose only, within its expiration date.





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## Safety Data Sheet

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

<b>Product Identifiers:</b>	<b>Dynarex Instant Cold Packs,</b> Dynarex Reorder # 4511-4512-4515; CS-36326 thru - 36329; DM-4511 & -4512; FP-4511 thru -4513; PK-4511 thru - 4514; SM-4512; ST-8020; ST-8025; TS-4511 thru -4514
<b>Other means of identification:</b>	Instant Cold Therapy Pack
<b>Recommended use of the chemical</b>	Instant Cold Pack for thermal therapy
<b>And restrictions on use</b>	<b>CAUTION:</b> <ul style="list-style-type: none"><li>• For external use only. Adult supervision recommended.</li><li>• Do not puncture. If bag breaks and fluid contacts skin or eyes, immediately flush area with large amounts of water.</li><li>• Do not swallow contents. If contents are accidentally swallowed, drink large amounts of water (not milk) and contact a Poison Control Center or physician.</li><li>• Cold therapy should not be used by individuals with circulatory problems, unless under the direct supervision of a physician.</li></ul>
<b>Name of the Manufacturer:</b>	Dynarex Corporation

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**Manufacturer's Address:** 10 Glenshaw Street  
Orangeburg, NY 10962

**Emergency Phone No.:** Toll Free: 1-888-DYNAREX  
Phone: (845) 365-8200  
Fax: (845) 365-8201  
At other times, contact the local Poison Control Center

**SECTION 2. HAZARDS IDENTIFICATION**

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### Classification

If container is damaged will release a chemical considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

A waterproof package containing small white ammonium nitrate pellets surrounding a small rupturable plastic bag filled with water. Once contents are mixed, the bag will feel cold to the touch. Used as a first aid device. No hazards expected when used per instructions. The hazards described below apply if the packaging is damaged resulting in release of calcium ammonium nitrate solution.

Serious Eye Damage/Eye Irritation	Category 2A
Oxidizing solids	Category 3
Respiratory or Skin Sensitization: <b>Skin Sens.1</b>	Respiratory or Skin Sensitization: <b>Resp. Sens.1</b>

### GHS Label elements, including precautionary statements

<b>Signal Word</b> Warning    Danger		
<b>Hazard Statements</b>		
<ul style="list-style-type: none"><li>• Causes serious eye irritation</li><li>• May intensify fire; oxidizer</li><li>• May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li></ul>		
		
<b>Appearance</b>	White; Clear to off white liquid	<b>Physical State</b> Solid ; Liquid when activated
		<b>Odor</b> Odorless

### Precautionary Statements

#### Prevention

- Wash face, hands and any exposed skin thoroughly after handling
- Keep away from heat/sparks/open flames/hot surfaces - No smoking
- Keep/Store away from clothing/ other combustible materials
- Take any precaution to avoid mixing with combustibles
- Wear protective gloves/protective clothing/eye protection/face protection

#### General Advice

- None

#### Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention.

#### Fire

- In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

#### Storage

- None

#### Disposal

- Dispose of contents/container to an approved waste disposal plant.

### Hazard Not Otherwise Classified (HNOC)

Not applicable

### Other information

No information available.

0% of the mixture consists of ingredient(s) of unknown toxicity.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

List 1, The composition of the product.

Chemical Name	Percent (by weight)	CAS No.	EC#	MITI No.
Calcium Ammonium Nitrate (with crystal water)	≤40%	15245-12-2	Unlisted	-
Water	≅ 50%	7732-18-5	Unlisted	-

Note: Calcium Ammonium Nitrate (with crystal water) is a compound and its ingredients are listed in List 2.

List 2, The Ingredients of Calcium Ammonium Nitrate

Chemical Name	CAS No	Percent	Hazardous
Calcium Nitrate With Crystal Water	10124-37-5(Anyhdrous)	81%	No
Ammonium Nitrate With Crystal Water	13477-34-4(Tetrahydrate)	7%	No
Crystal water		12%	No

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## SECTION 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. Get medical attention if ill effects occur.

**Ingestion:** If swallowed, do not induce vomiting, give several glasses of water or milk to drink. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

**Skin Contact:** Wash the affected area with soap and water

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

## SECTION 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable.

**Autoignition temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

If substance is not directly involved in the fire, use the best means available to extinguish the fire.

If substance is involved in the fire, use plenty of water. Do not use chemical extinguishers or foams or attempt to smother the fire with steam or sand.

Open doors and windows of the store to give maximum ventilation. Do not allow molten substance to run into drains. Prevent contamination of the substance by oils or other combustible materials. If water containing fertilizer enters any drains or watercourse, inform the local authorities immediately.

In the event of a fire, wear full protective clothing and approved Self-contained breathing apparatus, if fumes are being entered.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

## SECTION 7. HANDLING AND STORAGE

**General Information:** This product should be stored, 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, and well-ventilated area and keep 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 specifics 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 correspond species and quantity of fire equipment and leakage emergency equipment.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limit:** No exposure limit is listed for this product.

**Monitoring Methods:** No information found.

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low. Facilities storing or utilizing the 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.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** White grannules

**Odor:** Odorless.

**Molecular Formula:**  $5\text{Ca}(\text{NO}_3)_2 \cdot \text{NH}_4\text{NO}_3 \cdot 10\text{H}_2\text{O}$

**Molecular Formula:** 1080.71

**Water Solubility:** Soluble in water.

**Bulk Density:** Normal between 1000-1200kg/m<sup>3</sup>.

**PH:** 5.0(1%aqueous solution)

**%Volatiles by volume/ 21° C(70F):** No information found.

**Boiling Point:** No information found.

**Melting Point:** 100-104°C

**Decomposition Temperature:** No information found.

**Flash Point (closed cup):** No information found.

**Explosion Limit:** No information found.

**Vapor Density (Air=1):** No information found.

**Vapor Pressure:** (mm Hg) No information found.

**Usage:** Physical hot and cold therapy.

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** Stable under ordinary conditions of use and storage

**Reactivity:** no information found.

**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:**

Oral rat LD50:>2000mg/kg.

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### SECTION 12. ECOLOGICAL INFORMATION

**Environmental date:** No information found.

**Environmentla Toxicity:** No information found.

**Ecological Degradation:** Not available.

**Biology Degradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

### SECTION 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of container and unused contents in accordance with state and local requirements.

### 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.

### SECTION 16. OTHER INFORMATION

Disclaimer:

This Safety Data Sheet, which takes into consideration the requirements of Directive 76/768/EC and subsequent amendments and Directive 1999/45/EC plus subsequent amendments, has been prepared in accordance with Directive (EC) 1907/2006. It is believed to be correct and corresponds to the latest scientific/technical knowledge but all



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