#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name OPEN ROAD PLUS Recommended Use Ice melting compound Information on Manufacturer

CHEMSEARCH DIV. OF NCH CORP.

BOX 152170 IRVING, TX 75015

Product Code 0288 Chemical Nature Aqueous solution of metal salts **Emergency Telephone Number** 

CHEMTREC ® 800-424-9300

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

Caution

May cause skin irritation May cause eye irritation May cause irritation of respiratory tract

May be harmful if swallowed

Color Green Physical State Liquid **Odor** Odorless

Potential Health Effects Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eves

Skin

Inhalation

Ingestion

Chronic Effects

Target Organ Effects Aggravated Medical Conditions

Potential Environmental Effects

May cause eye irritation

Skin contact, Eye contact.

May cause skin irritation. May be absorbed through the skin in harmful amounts

May cause irritation of respiratory tract

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea None known

None known

Skin Absorption

Skin disorders, Respiratory disorders.

See Section 12 for additional Ecological information

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Magnesium Chloride Hexahydrate	7791-18-6

## 4. FIRST AID MEASURES

General Advice Eve Contact Skin Contact

Inhalation Ingestion Notes to Physician Avoid contact with skin, eyes, and clothing. Avoid breathing vapors, mist, or gas Rinse thoroughly with plenty of water, also under the evelids. Get medical attention if irritation develops and persists

Wash off immediately with plenty of water. Get medical attention if irritation develops and persists

If inhaled, remove to fresh air. Get medical attention if symptoms occur

Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention if symptoms occur

Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Flash Point 201°F/94°C Method Seta closed cup

Autoignition Temperature No information available

Suitable Extinguishing Media

Personal Precautions

**Environmental Precautions** 

Methods for Containment

Methods for Cleaning Up

Neutralizing Agent

Water spray. Carbon dioxide (CO2). Dry chemical. Foam. Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific Hazards Arising from the Chemical

Material can create slippery conditions

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear NFPA Flammability Health 1

0 Instability Health Flammability 0 HMIS Instability

# 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions

Do not flush into surface water or sanitary sewer system

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a

container for disposal according to local / national regulations (see section 13)

Pick up and transfer to properly labeled containers

Not applicable

## 7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze

## Issuing Date 14-May-2009

0.43 (Butyl acetate=1)

Storage Temperature 120°F/49°C Minimum 35°F/2°C Maximum Storage Conditions Outdoor Refrigerated Indoor Х Heated

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

**ACGIH TLV OSHA PEL** NIOSH Component Magnesium Chloride Hexahydrate No data available No data available No data available

Engineering Measures

Ensure adequate ventilation

Personal Protective Equipment **Eye/Face Protection** 

Safety glasses with side-shields

Skin Protection

Neoprene gloves

**Respiratory Protection** General Hygiene Considerations In case of insufficient ventilation wear suitable respiratory equipment

Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before re-use

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Evaporation Rate** 

Physical State Liquid Viscosity Non viscous Color Green Odor Odorless Appearance Transparent Ηα

Specific Gravity 1.26

Percent Volatile (Volume) VOC Content (%) 82

12.9 mmHg @ 70 °F VOC Content (g/l) Vapor Pressure

Vapor Density 0.6 (Air = 1.0)Solubility Completely soluble

Boiling Point/Range 244.6°F/118°C

## 10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur

Conditions to Avoid None known

Incompatible Products No materials to be especially mentioned

Hazardous Decomposition Products Hydrogen chloride gas Possibility of Hazardous Reactions None under normal processing

# 11. TOXICOLOGICAL INFORMATION

Product Information

No information available

# Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Magnesium Chloride Hexahydrate	8100 mg/kg ( Rat ) 2800 mg/kg ( Rat )	no data available	no data available	no data available	no data available

# Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Magnesium Chloride Hexahydrate	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product

			·		
Component	ACGIH	IARC	NTP	OSHA	Other
Magnesium Chloride Hexahydrate	not applicable				

# 12. ECOLOGICAL INFORMATION

Product Information No information available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Magnesium Chloride Hexahydrate	72 Hr EC50 Scenedesmus	96 Hr LC50 Gambusia affinis: 4210 mg/L [static]; 96 Hr	no data available	24 Hr EC50 Daphnia magna: 1400	N/A
	subspicatus: 2200 mg/L	LC50 Pimephales promelas:1970-3880 mg/L [static]		mg/L	

Persistence and Degradability No information available Bioaccumulation No information available Mobility No information available

## 13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations

Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

# 15. REGULATORY INFORMATION

Inventories

TSCA Complies DSL Complies

U.S. Federal Regulations

#### **SARA 313**

Section 313 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 and Title 40n of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure	Reactive Hazard
			Hazard	
Yes	No	No	No	No

# CERCLA

Canada

Component	Hazardous Substances RQs	CERCLA EHS RQs
Magnesium Chloride Hexahydrate	Not applicable	Not applicable

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the

# WHMIS Hazard Class



# 16. OTHER INFORMATION

Mike McDowell Prepared By Supercedes Date Not applicable Issuing Date 05/14/2009

No information available Reason for Revision Glossary No information available List of References. No information available

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