


PERFORMANCE-M

SECTION 1 - IDENTIFICATION

Product identifier:	PERFORMANCE-M
Product code:	
Recommended use:	Ice melter / Anti Icing / Pre wetting
Chemical name :	Mixture
Chemical group:	Mixture
Supplier identifier:	MULTI-ROUTES INC. 11415 6e Av. Montréal, Québec, H1E 1R8 (514) 648-2632
Manufacturer identifier:	MULTI-ROUTES INC. 11415 6e Av. Montréal, Québec, H1E 1R8 (514) 648-2632
Emergency phone:	514-648-2632

SECTION 2 - HAZARD IDENTIFICATION

Classification	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	
Signal word	CAUTION	
Hazard statement	H319	Cause severe eyes irritation.
Precautionary statement - Prevention	P264 P280	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement - Response	P305+P351+P338 P337+P313	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.
Precautionary statement - Elimination	P501	Dispose contents/containers according to municipal, provincial and federal regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous product	No. CAS	% (weight)
Magnesium Chloride	7786-30-3	15 - 40%
Proprietary Blend	Not available	0.2 - 0.6%

SECTION 4 - FIRST AID MEASURES

Inhalation:	IF INHALED: remove person to fresh air and keep comfortable for breathing.
Skin contact:	IF ON SKIN: If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing/ jewellery and wash it before reuse. Apply moisturizing cream in case of dry skin.
Eye contact:	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.
Ingestion:	NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.



PERFORMANCE-M

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media:	In case of fire: Use water, foam, CO2, dry chemicals to extinguish.
Unsuitable extinguishing media:	Stream of water directed into the product will generate large amounts of foam.
Hazardous combustion products :	Calcium oxides.
Protective equipment :	Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.
Precautions:	Retain water run-off.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protective equipment:	Wear plastic or rubber gloves if large quantities of bulk are handled. (See Section 8)
Containment and clean up:	Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.
Environmental precautions:	Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations. The biodegradability of this product is not applicable.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Containers must be identified correctly. Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.
Conditions for safe storage:	Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.
Incompatible materials :	Strong oxidants, acids. The product do not polymerise.

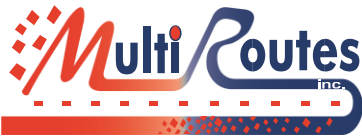
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:				
Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Magnesium Chloride	Not available	Not available	Not available	Not available

Engineering controls:	Local ventilation system is recommended.
Protection of airways:	Not required if ventilation is adequate.
Protective equipment and clothing:	Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.
General hygiene recommendations :	Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent amber liquid
Odour :	Light candy odour
Odour threshold:	Not available
pH (sol. 10%) :	6.0 – 8.0
Melting point:	Not applicable



PERFORMANCE-M

Initial boiling point:	Not applicable
Flash point:	Not combustible
Evaporation rate (butyl acetate = 1):	Not applicable
Flammability:	Not applicable
LIL:	Not applicable
UIL:	Not applicable
Vapour pressure:	Not available
Vapour density (air=1):	Not available
Relative density:	1.28 – 1.32
Solubility:	Soluble
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability and reactivity :	Stable under recommended conditions and expected usage.
Polymerisation:	No.
Conditions to avoid :	Contact with incompatible materials.
Incompatible materials :	Strong oxidants, acids.
Hazardous decomposition products :	Carbon oxides, nitrogen oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data:				
Hazardous ingredient	CAS	% (weight)	DL₅₀ (route, species)	CL₅₀ (species)
Magnesium Chloride	7786-30-3	15 - 40%	2800 mg/Kg (Oral rat)	Not available
Proprietary Blend	Not available	0.2 - 0.6%	Not available	Not available
Short term exposure (acute) :				
Inhalation:	Not applicable.			
Skin:	May cause skin irritation and / or drying the skin.			
Eyes:	May cause irritation to the eyes.			
Ingestion:	Nausea, diarrhea, vomiting and abdominal cramps.			
Note to physician if ingested in solution	Because of the severely irritating or corrosive nature of the product, swallowing may lead to ulceration and inflammation of the upper digestive tract with hemorrhage and fluid loss. In addition, there may be perforation of the esophagus and stomach causing mediastinitis or peritonitis and complications resulting therefrom.			
Long term exposure (chronic) :				
Inhalation:	Not available			
Skin:	Not available			
Eyes:	Not available			
Ingestion:	Not available			
Carcinogenicity :	Not carcinogen by IARC			
Teratogenicity:	Not available			
Mutagenicity:	Not mutagen			
Target organ:	Not available			
Conditions aggravated by exposure :	Not available			

SECTION 12 - ECOLOGICAL INFORMATION

Hazardous ingredient	CAS	% (weight)	Value	Species
Magnesium Chloride	7786-30-3	15 - 40%	> 2800 mg/L	Activated Sludge
			10650 ppm, 96 h	Sunfish Fresh Water
			>5000 - 10650 ppm,	Harlequin fish
			96h	



PERFORMANCE-M

Persistence and degradability :	Not available
Bioaccumulation potential:	Not bioaccumulative
Mobility in soil:	Not available
Other adverse effects :	Not available

SECTION 13 - DISPOSAL CONSIDERATIONS

Safe handling for disposal:	Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.
Methods of disposal :	Dispose contents/containers according to all municipal, provincial and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number	Proper shipping name	Class	Packing group	Placard
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

SECTION 15 - REGULATORY INFORMATION

Canadian Environmental Protection Act (CEPA):	Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.
Others :	Components of this product are listed on the TSCA or are exempt.

SECTION 16 - OTHER INFORMATION

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Date :	May 24, 2016
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Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.