

Trade name:	Polar Thunder
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SECTION 1: Identification

Product identifier: Polar Thunder
Synonyms: Not applicable
Other means of identification: Not applicable
SDS Number: Not applicable
Recommended use: Superior deicer
Recommended restrictions: Uses other than as recommended above.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: SOMAVRAC C.C. INC.
Company Address: 3450, boul. Gene-H. Kruger
Trois-Rivières, QC, G9A 5G1
Canada
Website: www.groupesomavrac.com
Telephone: 1-819-379-3311 Hours of operation: 8:30 AM – 5:00 PM Mon-Fri. (Eastern Time)
Emergency phone number: 1-613-996-6666 (CANUTEC) 24 hours

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with the Hazardous Products Regulations (2015) (Canada) Workplace Hazardous Materials Information System (WHMIS 2015):

Classification of the Substance or Mixture (GHS-CA)

Not classified

Label Elements (GHS-CA):

Pictograms (GHS-CA) : Not applicable
Signal Word (GHS-CA) : Not applicable
Hazard Phrases (GHS-CA) : Not applicable
Precautionary Phrases (GHS-CA) : Not applicable

Health and Physical Hazard(s) not otherwise Classified (HNOC): Not applicable.

Percentage of ingredient(s) of unknown acute toxicity:
Not applicable

SECTION 3: Composition/information on ingredients

Mixture:

This product is not classified as dangerous; therefore, disclosure of the composition is not necessary.

SECTION 4: First-aid Measures

Description of necessary measures:

Inhalation: In case of symptoms, move the victim outside and keep comfortable for breathing. Call a doctor if symptoms occur.

Skin contact: Remove contaminated clothing. Remove as much powder as possible. Rinse skin with lots of water. Call a doctor if irritation persists.

Eye contact: In case of contact with the eyes, immediately flush eyes with lots of water. If easy to do, remove contact lenses, if worn. Continue rinsing. Call a doctor if irritation persists.

Ingestion: If the victim is conscious and lucid, rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If vomiting occurs spontaneously lean victim forward to reduce the risk of aspiration. Call a POISON CENTRE or a doctor if the person is unwell.

Most important symptoms/effects, acute and delayed: No symptoms are expected based on anticipated exposures to the product. May cause mild skin and eye irritation. Prolonged or repeated contact with the skin may cause drying, defatting and dermatitis. In case of ingestion, there is a risk of mild gastro-intestinal irritation and stomach upset, nausea or vomiting. Inhalation may cause mild irritation of the nose, throat and respiratory tract. Not classified as an irritant to the respiratory tract.

Indication of immediate medical attention and special treatment needed: No additional information available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: This product is not flammable. Use extinguishing media suitable for the surrounding materials.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical:

Not anticipated to pose a fire or explosion hazard under normal conditions of use. Thermal decomposition generates: chlorine, sodium oxides and hydrogen chloride.

Special protective equipment and precautions for fire-fighters: Exercise caution when fighting any chemical fire. Wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate Personal Protective Equipment (PPE) (See information provided in Section 8). Avoid inhalation of dusts of the product and avoid all contact with eyes or skin.

Methods and material for containment and cleaning up: Clean up with a broom or vacuum in order to adequately clean up spill, but without raising dust.

Avoid discharge to sewers, drains, terrestrial environments and water courses. Contact local authorities in case of spills to sewers or aquatic environments.

After cleaning up the product, rinse the area with water. Do not release rinse water to sewers.

SECTION 7: Handling and Storage

Precautions for safe handling: Wear appropriate personal protective equipment (See Section 8). Do not inhale dusts of the product. Wash hands, forearms and face thoroughly after handling the product. Employ good industrial hygiene practices. Avoid handling measures which create dusts.

Conditions for safe storage, including any incompatibles: Keep in a cool, dry, well-ventilated area. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits:

Occupational exposure limits are not applicable to components of this product. Although the product is soluble in water, the absence of any other exposure limits we have provided the limits from OSHA and ACGIH for Particulates Not Otherwise Regulated (PNOR) and Particulates Not Otherwise Specified (PNOS).

Material	NIOSH REL-TWA	OSHA PEL-TWA	ACGIH TLV-TWA
Particulates Not Otherwise Regulated (OSHA), Particulates Not Otherwise Specified (ACGIH)	Not available	15 mg/m ³ (tot.)	10 mg/m ³ (Inh.) 3 mg/m ³ (Resp.)

Tot : total

Inh : Inhalable

Resp : Respirable

Appropriate engineering controls: General ventilation should be sufficient. However, ventilation rates should be matched to conditions. If dusts, fumes or mists are generated, use appropriate ventilation to keep airborne levels below appropriate exposure limits.

Individual protection measures, such as personal protective equipment:

Eye/face protection:	Wear protective safety glasses. Do not wear contact lenses.
Skin and Hand protection:	Avoid skin contact. Wear protective clothing and gloves made of rubber.
Respiratory protection:	If dusts are released, and local ventilation is not sufficient to ensure airborne levels are below exposure limits, wear an appropriate respirator with a dust cartridge.
Thermal hazards:	Not applicable based on recommended uses.
General provisions:	Minimize exposure. Ensure appropriate personal protective equipment is available in the workplace. Respect all appropriate legislation regarding health and safety in the workplace and follow all recommendations from your health and safety committee. Contact a health and safety professional or personal protective equipment manufacturer for more information.

SECTION 9: Physical and chemical properties
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Appearance:	Opaque green crystal
Odor/odour:	Odourless
Odor/odour threshold:	Not applicable
pH:	6-8 (neutral)
Melting point/freezing point:	800.9°C (1473.62°F)
Initial Boiling Point and boiling range:	1413°C (2575.40°F)
Flash point:	Not applicable
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not available.
Flammability limit – upper (%):	Not available.
Explosive limit – lower (%):	Not available.
Explosive limit – upper (%):	Not available.
Vapor/Vapour pressure:	0.1 kPa (1 mmHg) @865°C
Vapor/Vapour density (air=1):	Not applicable
Relative density (water = 1):	2.17
Solubility(ies):	36 g/ 100g (water) @ 20°C
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable

SECTION 10: Stability and Reactivity

Reactivity:	Stable under normal anticipated conditions of use.
Chemical stability:	Stable under normal anticipated conditions of use.
Possibility of hazardous reactions:	Hazardous reactions are not anticipated.
Conditions to avoid:	Do not mix this product with other chemical products.
Incompatible materials:	May react with oxidizing agents, acids, lithium and bromine trifluoride and furan-2-peroxycarboxylic acid.
Hazardous decomposition products:	Thermal decomposition generates: chlorine, sodium oxides and hydrogen chloride.

SECTION 11: Toxicological information

Information on likely routes of exposure: Ingestion, inhalation (dusts), contact with skin and eyes.

Symptoms related to the physical, chemical, and toxicological characteristics: No symptoms are expected based on anticipated exposures to the product. May cause mild skin and eye irritation. Prolonged or repeated contact with the skin may cause drying, defatting and dermatitis. In case of ingestion, there is a risk of mild gastro-intestinal irritation and stomach upset, nausea or vomiting. Inhalation may cause mild irritation of the nose, throat and respiratory tract. Not classified as an irritant to the respiratory tract.

Delayed and immediate effects and chronic effects from short or long-term exposure:

<i>Skin Irritation and Corrosion:</i>	Not classified as a skin irritant based on information available on the known components of this product.
<i>Serious Eye Damage/ Eye Irritation:</i>	Not classified as an eye irritant based on information available on the known components of this product.
<i>Respiratory Sensitization:</i>	Not anticipated to cause respiratory sensitization based on information available on the product.
<i>Skin Sensitization:</i>	Not anticipated to cause skin sensitization based on information available on the product.
<i>Germ Cell Mutagenicity:</i>	Not anticipated to cause heritable genetic effects based upon information available on the components and the product.
<i>Carcinogenicity:</i>	Not anticipated to cause cancer based on information available on the product. None of the ingredients are listed on the ACGIH or IARC carcinogen lists.
<i>Reproductive Toxicity:</i>	Not anticipated to damage fertility or the unborn child based on information available on the product.
<i>Specific Target-Organ Toxicity</i>	

– *Single Exposure:* Not anticipated to cause specific target-organ toxicity after single exposure. Not classified as a respiratory tract irritant based on the information available on the known components of this product.

Specific Target-Organ Toxicity
– *Repeated Exposure:* Not anticipated to cause specific target-organ toxicity after repeated or prolonged exposure. Repeated or prolonged contact with the skin may cause dermatitis.

Aspiration Hazard: Not anticipated to be an aspiration hazard.

Numerical measures of toxicity:

Not applicable

Acute Toxicity Estimate (ATE) of the product:

- Acute toxicity (oral): Not available
- Acute toxicity (dermal): Not available
- Acute toxicity (inhalation): Not available

Further information: Not available

SECTION 12: Ecological information

Ecotoxicity:

Product data: Not determined

Persistence and Degradability: Not determined
Bioaccumulative Potential: Not determined
Mobility in Soil: Not determined
Other adverse effects: Not determined

SECTION 13: Disposal considerations

Disposal instructions:

Product - Dispose in accordance with applicable federal, provincial/territorial, and local regulations.

Contaminated packaging - Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport Information

Not regulated for transport according to the TDG (Transportation of Dangerous Goods) (Canada), IMO-IMDG (International Maritime Organisation – International Maritime Dangerous Goods) and the US DOT (Department of Transport).

SECTION 15: Regulatory Information

Canada:

Classification according to the Hazardous Products Regulations (WHMIS 2015):

See Section 2

This SDS complies with the Hazardous Products Regulations (WHMIS 2015).

New Substance Notification Regulations (NSNR):

All of the ingredients of this product are on the DSL (Domestic Substances List) of the Canadian Environmental Protection Act.

Priority Substances List (PSL): Listed on PSL2 – Road salts.

USA:

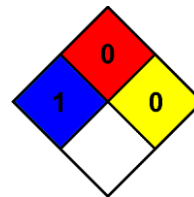
HMIS® III Classification:

Health :	1
Flammability :	0
Physical Hazard	0
Personal Protection :	X

(4 = Severe, 3 = Serious, 2 = Moderate, 1 = Light, 0 = Minimal)

NFPA® Classification:

- NFPA Health Hazards : 1 - Materials that, under emergency conditions, can cause significant irritation
- NFPA Flammability Hazards : 0 - Materials that will not burn under typical fire conditions, including intrinsically non-combustible materials such as concrete, stone, and sand.
- NFPA Instability Hazards : 0 - Materials that in themselves are normally stable, even under fire conditions.



SECTION 16: Other Information

Revision Date: May 1, 2016

Safety Data Sheet created by: It’s Time Compliance www.itstimecompliance.com

Contact the supplier (listed in Section 1) for all information concerning this SDS or questions regarding this product.

Acronyms used in this SDS (not defined elsewhere):

ACGIH TLV-TWA	American Conference of Governmental Industrial Hygienists Threshold Limit Value (Time-Weighted Average)
AIHA	American Industrial Hygiene Association
EC50	Effective Concentration, 50%
GHS – CA	Globally Harmonised System - Canada
HMIS	Hazardous Materials Information System
IARC	International Agency for Research on Cancer
IMO	International Maritime Organisation
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
MSHA	Mine Safety and Health Administration (US)
NFPA	National Fire Protection Association (US)
NIOSH-REL	National Institute for Occupational Safety and Health (US) Recommended Exposure Limit
OSHA-PEL	Occupational Safety and Health Administration Permissible Exposure Limit
PNOR	Particulates Not Otherwise Regulated (OSHA)
PNOS	Particulates Not Otherwise Specified (ACGIH)
STEL	Short-Term Exposure Limit
TDG	Transportation of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (US)
US-DOT	Department of Transport (US)
WHMIS	Workplace Hazardous Materials Information System

Disclaimer:

The information in this SDS was obtained from sources we believe to be reliable. However, they are provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For these reasons, among others, we do not accept responsibility for loss, damage or expense arising out of or in any way with the handling, storage, use or disposal of the product. If the product is used as a component in another product, the information may not be applicable.