

1. Identification

Product identifier: Penguin Ice Clear
Product code: ---
Supplier Name: Les Traitements de Surface Terra Nova Inc.
621, rue De la Sablière
Bois-des-Filion, (Québec)
J6Z 4T2
Telephone: 450 312-1005
Emergency tel. number: 450 312-1005
Available hours: 8h-17h Monday to Friday
Recommended use: Wood Protector. Industrial use only.
Restriction on use: Application above 8 °C

2. Hazard identification

Signal word: WARNING

Product classification:



Reproductive toxicity-Category 1B.

Skin sensitization-Category 1A.

Hazard statement(s): H360 - May damage fertility or the unborn child.
H317 - May cause an allergic skin reaction.

Precautionary statement(s)

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist, vapours, and spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye and face protection.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation or a rash occurs: Get medical advice. IF exposed or concerned: Get medical advice. Take off contaminated clothing and wash it before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local, regional, national and/or international regulations in force.

Other hazards: No other effects shown.

See toxicological information, section 11

3. Composition/ Information on ingredients

No	CAS No :	Common name and synonyms	Concentration % (w/w)
1	10043-35-3	Boric acid	2.99
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	0.10

4. First-aid measures

If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation persists, consult a doctor.

Inhalation: Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Symptoms: Skin itching, redness of eyes and skin. Skin hypersensitivity.

Effects (acute or delayed): May cause eyes and skin irritation. May cause skin sensitization.

Immediate medical attention and special treatment: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

Specific hazards arising from the hazardous product: No specific hazard.

Hazardous combustion products: Carbon monoxide and dioxide.

Special protective equipment and precautions for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or if you do not have suitable training or protection. Evacuate surrounding areas. Do not touch or walk through spilled material. Shut off all heating and ignition sources. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Protective equipment and emergency procedures: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution. Use inert absorbent or retention tubes in the event of a large spill.

Methods and materials for containment and cleaning up: Stop leak if without risk. Move containers from spill area. Contain leaks and pick up with non-combustible absorbent materials such as sand, earth or vermiculite. Then, place in an appropriate waste disposal container according to local regulations. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatibility: Strong acids and bases as well as strong oxidizing agent.

8. Exposure Controls/ Personal protection

Alberta

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	10043-35-3	Boric acid	N/A	N/A	N/A	N/A	N/A	N/A
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	N/A	N/A	N/A	N/A

British-Columbia

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	10043-35-3	Boric acid	N/A	N/A	N/A	N/A	N/A	N/A
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	N/A	N/A	N/A	N/A

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Ontario

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	10043-35-3	Boric acid	N/A	N/A	N/A	N/A	N/A	N/A
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	N/A	N/A	N/A	N/A

Quebec

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	10043-35-3	Boric acid	N/A	N/A	N/A	N/A	N/A	N/A
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	N/A	N/A	N/A	N/A

Saskatchewan

No	CAS No :	Common name and synonyms	8-hour occupational exposure limit (TWA)		15-minute occupational exposure limit (STEL)		Ceiling occupational exposure limit	
			ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1	10043-35-3	Boric acid	N/A	2	N/A	6	N/A	N/A
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	N/A	N/A	N/A	N/A

United States

No	CAS No :	Common name and synonyms	IDLH NIOSH	Regulatory Limits			Recommended Limits	
				OSHA PEL		California / OSHA PEL	NIOSH REL	ACGIH ® 2019 TLV ®
				ppm	mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
1	10043-35-3	Boric acid	N/A	N/A	N/A	N/A	N/A	N/A
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	N/A	N/A	N/A	N/A

IDHL: Immediately Dangerous to Life or Health Concentrations
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible Exposure Limits
 California / OSHA: California Division of Occupational Safety and Health
 REL: Recommended Exposure Limits
 ACGIH ®: American Conference of Governmental Industrial Hygienists
 TLV ®: Threshold Limit Values

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using

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the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Others: Wear protective clothing with long sleeves and appropriate safety shoes at all times.

9. Physical and chemical properties

Physical state: Liquid

Colour: Non-opaque white

Odour: Characteristic acrylic

Odour threshold: Not available

pH: 8-8,5

Melting/Freezing point: < 0 °C (32 °F)

Initial boiling point/boiling range: 100 °C (212 °F)

Flash point: Not applicable

Flammability: Not applicable

Lower flammable/explosive limit: Not applicable

Upper flammable/explosive limit: Not applicable

Auto-ignition temperature: Not applicable

Evaporation rate: < 0.05 (ether = 1)

Vapour pressure: 17,005 mm Hg at 20 °C

Vapour density: > 1 (air = 1)

Specific gravity: 1,026 kg/L at 20 °C (water = 1)

Solubility in water: Miscible

Partition coefficient – n-octanol/water: Not applicable

Decomposition temperature: Not applicable

Kinematic viscosity: 20 - 100 mm²/s (at 40 °C)

10. Stability and reactivity

Reactivity: Stable under recommended conditions of storage and handling.

Chemical stability: The product is chemically stable under normal conditions of use.

Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use.

Conditions to avoid: Not applicable

Incompatible materials: None known.

Hazardous decomposition products: Carbon monoxide and dioxide.

11. Toxicological information

	Oral	Dermal	Inhalation gases	Inhalation vapours	Inhalation dusts/mists
ATE _{mix}	72777.02 mg/kg	66889.63 mg/kg	N/A	> 20 mg/l	> 5 mg/l

No	CAS No :	Common name and synonyms	LD ₅₀ oral mg/kg	LD ₅₀ skin mg/kg	LC ₅₀ inhalation ppmV 4h - gases	LC ₅₀ inhalation mg/l 4h - vapours	LC ₅₀ inhalation mg/l 4h - dusts-mist
1	10043-35-3	Boric acid	2660	> 2000	N/A	N/A	> 5.00
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	500	> 5000	N/A	N/A	0.05

Routes of exposure: This product is absorbed through the respiratory tract, skin and gastrointestinal tract.

Symptoms: Skin itching, redness of eyes and skin. Skin hypersensitivity.

Delayed and immediate effects: May cause eyes and skin irritation. May cause skin sensitization.

Aspiration hazard	N/A
Skin corrosion - Skin irritation	N/A
Serious eye damage - Serious eye irritation	N/A
Skin sensitization	Yes
Respiratory sensitization	N/A
Specific target organ toxicity – single exposure	N/A
Specific target organ toxicity – single exposure Category 3 Narcotic effects	N/A
Specific target organ toxicity – single exposure Category 3 Respiratory tract irritation	N/A
Specific target organ toxicity – repeated exposure	N/A

No	CAS No :	Common name and synonyms	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	10043-35-3	Boric acid	4	A5	The data do not allow for an adequate assessment of mutagenic effects.	It has an embryotoxic and / or fetotoxic in animals. Teratogenic effects shown in animals or suspected in humans.
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	N/A	N/A	No effects shown.	Experimental teratogen.

Cancer classification under IARC (International Agency for Research on Cancer)

Group 1: carcinogenic to humans.
 Group 2A: probably carcinogenic to humans.
 Group 2B: possibly carcinogenic to humans.
 Group 3: not classifiable as to its carcinogenicity to humans.
 Group 4: probably not carcinogenic to humans.

Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

Group A1: confirmed human carcinogen.
 Group A2: suspected human carcinogen.
 Group A3: confirmed animal carcinogen with unknown relevance to humans.
 Group A4: not classifiable as a human carcinogen.
 Group A5: not suspected as a human carcinogen.

12. Ecological information

Ecotoxicity

No	CAS No :	Common name and synonyms	%	Aquatic Ecotoxicity short term	Aquatic Ecotoxicity long term	Terrestrial Ecotoxicity
1	10043-35-3	Boric acid	2.99	No known adverse effect to aquatic life.	No known adverse effect to aquatic life.	No known adverse effect to the environment.
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	0.10	Very toxic to aquatic life.	Very toxic to aquatic life with long lasting effects.	No known adverse effect to the environment.

Persistence and degradability. Bioaccumulative potential. Other adverse effects

No	CAS No :	Common name and synonyms	%	Persistent	Bio-accumulation	Aquatic ecotoxicity
1	10043-35-3	Boric acid	2.99	Yes	No	No
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	0.10	No	No	No

Degradability: N/A

Mobility in soil: N/A

13. Disposal considerations

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. Transport information

	TDG	DOT	IMDG	IATA
UN Number				
Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class(es)				
Packing group				

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78), and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)): N/A

Marine pollutant: No

Exemption for limited quantity: Not applicable

Special precautions: Not applicable

Other exemptions: Not applicable

15. Regulatory information

Canada

No	CAS No :	Common name and synonyms	%	DSL	NDSL	NPRI
1	10043-35-3	Boric acid	2.99	X		
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	0.10	X		

United States

No	CAS No :	Common name and synonyms	%	TSCA	PROP-65	RTK
1	10043-35-3	Boric acid	2.99	X		
2	35691-65-7	1,2-Dibromo-2,4-dicyanobutane	0.10	X		

The customer is responsible for determining the PPE (personal protection equipment) code for this material.

The classification of the product and the SDS were developed in accordance with HPR and HazCom 2012.

16. Other information

Date: 2021-06-08

Version: 1

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