

Material Safety Data Sheet

WHMIS	TDG Road/Rail	Health Hazard
\bigcirc		Fire Hazard
		Reactivity
		Personal Prot

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	В

This MSDS is provided as information only. This product is not WHMIS regulated. This product is regulated under CCCR regulation. Packaged as a consumer good.

Product and company identification

BO JACK ANTIFREEZE -40C Product name Code : 30-15385

Date of issue (yyyy/mm/dd) : 2014-11-11. **Material uses** Consumer products: Antifreeze for pool

Manufacturer **Supplier** Sani-Marc Inc. Sani-Marc Inc.

42 rue de l'Artisan 42 rue de l'Artisan Victoriaville, Qc Victoriaville, Qc G6P 7E3 G6P 7E3 1-819-758-1541 1-819-758-1541

In case of emergency Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

2. Hazards identification

Potential hazards described in this section are not expected when manufacturer's direction for use and proper security measures are observed.

Physical state : Liquid. [Transparent liquid] : Odorless

Emergency overview : WARNING!

May be harmful if swallowed. Irritating to eyes and skin. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and

clothing. Wash thoroughly after handling.

: Eve contact. Inhalation. Routes of entry

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Harmful if swallowed Irritating to skin. Skin Eyes : Irritating to eyes.

See toxicological information (Section 11) for more details.

Composition/information on ingredients 3.

CAS number % (w/w) Calcium chloride (CaCl2), dihydrate 10035-04-8 10 - 30 propane-1,2-diol 57-55-6 1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

First aid measures 4.

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower evelids. Get medical attention immediately

In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse. Get medical attention immediately.

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or Inhalation oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give

In a fire or if heated, a pressure increase will occur and the container may burst.

mouth-to-mouth resuscitation.

None known.

5. Fire-fighting measures

Flammability of the product **Extinguishing media**

Skin contact

Suitable

Use an extinguishing agent suitable for the surrounding fire.

Not suitable Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving

Hazardous thermal decomposition products

any personal risk or without suitable training.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

2014-11-11. 1/4

Fire-fighting measures

Special protective equipment 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 without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling : Put on suggested personnal protective equipment when handling the product. Avoid contact with skin and eyes. Do not ingest. This product is formulated for commercial, institutionnal and industrial uses only.

Storage : Store in cool ventilated place. Keep container tightly closed when product is stored. Protect from freezing. Keep out of reach of children.

8. Exposure controls/personal protection

Occupational exposure limits		TWA (8	3 hours)		STEL (1	5 mins)		Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
	ON 1/2013	- 50	10 155	- -	-	-	- -	- -	-	 - -	[a] [b]
Form: [a]Aerosol only. [b]Vapour and aeros	US AIHA 10/2011 ol.	-	10	_	1	-	-	-	-	-	

Consult local authorities for acceptable exposure limits.

Engineering measures Hygiene measures

- : Général room ventilation is adequate for the use of this product.
- : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Personal protection

Respiratory

- : No specific protective equipment suggested
- Hands : It is suggested to use chemical imprevious protective gloves when using this product
- Eyes : It suggested to wear safety glasses when handling or using chemical products.
- Skin
 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical state : Liquid. [Transparent liquid] Molecular formula : Not applicable. Flammable limits : Not available. Color : Yellowish. Green Molecular weight : Not applicable. **Burning rate** : Not applicable. Odor : Odorless. **Burning time** Vapor pressure : Not available. : Not applicable : 1.224 **Critical temperature** Relative density Vapor density : Not available. : Not available. 7.8 Volatility : Not available Auto-ignition temperature : Not available.

Viscosity : Not available. Evaporation rate : Not available. Flash point : [Product does not sustain

combustion.]
: Not available.

Odor threshold : Not available. Ionicity (in water) : Not available. Dispersibility properties :

Solubility : Easily soluble in the following materials: cold water, hot water, methanol and n-octanol.

 Melting/freezing point
 Not available.
 Boiling/condensation point
 : Not available

10. Stability and reactivity

Chemical stability : The product is stable
Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

2014-11-11.

Toxicological information

The symptoms, hazards and situations described in this section are not expected when manufacturer's direction for use, proper security measures and given professionnal exposure limits are correctly followed.

Potential chronic health effects

Chronic effects No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

Target organs Not available.

Over-exposure signs/symptoms

Inhalation : Not a usual way of absorbtion

No specific data. Ingestion

Adverse symptoms may include the following: Skin

irritation redness

Eyes : Adverse symptoms may include the following:

pain or irritation watering redness

Medical conditions aggravated by over-exposure

None known.

Acute toxicity

Product/ingredient name	Result	Species	Dose		Exposure
Calcium chloride (CaCl2), dihydrate	LD50 Dermal	Rabbit		0 mg/kg	-
	LD50 Oral	Rat		mg/kg	-
	LD50 Oral	Rat - Male		mg/kg	-
propane-1,2-diol	LD50 Dermal	Rabbit		0 mg/kg	-
	LD50 Dermal	Rabbit		0 mg/kg	-
	LD50 Oral	Mouse		0 mg/kg	-
	LD50 Oral	Rabbit		0 mg/kg	-
	LD50 Oral	Rat	2000	0 mg/kg	-
<u>Irritation/Corrosion</u>					
Product/ingredient name	Result	Species	Score	Exposure	Observation
propane-1,2-diol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Child	-	96 hours 30	-
				Percent continuous	
	Skin - Mild irritant	Human	-	168 hours 500 milligrams	-
	Skin - Moderate irritant	Human	-	72 hours 104 milligrams	-
	Skin - Mild irritant	Woman	-	Intermittent 96 hours 30 Percent	-

Ecological information

Ecotoxicity : Readily biodegradable	е			
Aquatic ecotoxicity Product/ingredient name	Test	Result	Exposure	Species
Froduct/ingredient name	rest	Result	Exposure	Species
Calcium chloride (CaCl2), dihydrate	OECD 201 Alga, Growth Inhibition Test	Acute EC50 2700 mg/l Growth rate	72 hours	Aquatic plants - Selenastrum capricornutum
	OECD 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Acute EC50 2400 mg/l	48 hours	Daphnia - Daphnia magna
	EPA	Acute LC50 19400 mg/l	48 hours	Crustaceans - Cyclops abyssorum prealiinus
	EPA	Acute LC50 2770 mg/l	48 hours	Daphnia - Daphnia magna
	EPA	Acute LC50 13400 mg/l	96 hours	Fish - Gambusia affinis
	EPA	Acute LC50 10650 mg/l	96 hours	Fish - Lepomis macrochirus
	EPA	Acute LC50 4630 mg/l	96 hours	Fish - Pimephales promelas
propane-1,2-diol	US EPA	Acute EC50 110 ppm Fresh water	48 hours	Daphnia - Water flea - Daphnia magna
	-	Acute LC50 1000 mg/l Marine water	48 hours	Crustaceans - Amphipod -

2014-11-11. 3/4

Ecological information

Acute LC50 710000 µg/l Fresh 96 hours

water

Chaetogammarus marinus - Young Fish - Fathead minnow - Pimephales promelas

Bioconcentration factor

Not available.

Toxicity of the products of The products of biodegradation are as toxic as the original product.

biodegradation

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Waste stream

: Not available

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Transport information 14.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	ı		-
TDG Classification	Not regulated.	-	-	-		-

PG* : Packing group

Regulatory information

United States inventory (TSCA 8b)

WHMIS (Canada) **Canadian lists**

: All components are listed or exempted.

: Not controlled under WHMIS (Canada).

: CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed. Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.

Canada inventory :At least one component is not listed.

Other certification

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

Other information on the product

: CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. **Label requirements**

MSDS prepared by: QA and Documentation Department Date of printing (YYYY-MM-DD) : 2014-11-11.

Date of issue (YYYY-MM-DD) : 2014-11-11. Sani-Marc Inc. 42 rue de l'Artisan Note: MSDS are valid for a 3 years period after the date of issue Victoriaville, Qc

Indicates information that has changed from previously issued version.

G6P 7E3 1-819-758-1541

Notice to reader

There are potential hazards to people and goods associated with the use of this product which are detailed in the present Material Safety Data Sheet (MSDS). To minimize potential hazards associated with this product it is of users responsibility to conform the directions for use and all other instructions provided in the Material Safety Data Sheet (MSDS) of this product. The manufacturer, distributors and suppliers of this product are exonerating themselves and consequently shall not be liable for any prejudice or damage of any kind, resulting from the use of this product which may not be in accordance with the directions for use or all the instructions provided in the present Material Safety Data Sheet (MSDS) or resulting from an unadvised use of the present product..

Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

2014-11-11. 4/4