

Centre Anti-Poison pour le Québec: (800) 463-5060 Tél. (Qc): (418) 660-8666 / 800-890-8666 Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier			Product Use		
BORIC ACID				Laboratory use	
Chemical formula				Product code ; BB-0901	Molar weight
НзвОз				BR-0115; BP-0115; BU-0115	61,83
Chemical name / Commerci BORIC ACID, ACIDE	ial name / Synonymous E BORACIQUE, ACIDE OR	THOBORIQUE, BC	PROFAX, THREE ELEP	HANT	
Supplier's name			Address-Street		
Laboratoire MAT			610, Adanac Street		
City		Province			
Québec		Québec			
Postal code Internet		Phone number			
G1C 7B7 www.labmat.com		418-660-8666 / 800-890-8666			
Emergency phone CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060			
	Date SDS SDS Prepared by		•		
Date SDS		SDS Prepared by		E-Mail	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Reproductive toxicity category 1B		
Signal Word	DANGER		
Hazards statements (H)	H360 May damage fertility or the unborn child.		
Precautionary statements (P)	P201 Obtain special instructions before use.		
	P202 Do not handle until all safety precautions have been read and understood.		
	P280 Wear protective gloves/protective clothing/eye protection/face protection.		
	P308 + P313 IF exposed or concerned: Get medical advice/attention.		
	P405 Store locked up.		
	P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.		
PICTOGRAMS			
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)		
	Health 2		
	Fire 0		
	Reactivity 0		
	Special danger		

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Acide borique	10043-35-3	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 1.5 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Not applicable.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. Boron oxides. Borane.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10). Boric acid reacts violently with acid anhydrides and potassium.
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for	Evacuate personnel to safe areas. Pick up with a shovel or broom, taking care not to scatter dust. Dilute
containment and cleaning up /	residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a
Personnal precautions, protective	container provided for the disposal of hazardous materials. Use a respirator as needed. Use personal
equipment	protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.

SECTION 07 - HANDLING AND STORAGE

•	Store in a cool, dry place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products.
	Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	NoCAS		Control parameters	Basis
Boric acid	10043- 35-3		2.000000 mg/m3	Canada. British Columbia OEL
			6.000000 mg/m3	Canada. British Columbia OEL
		No da	ta available	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		No da	ta available	Canada. Ontario OELs
		No da		Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

Data source	Sigma-Aldrich (Millipore Sigma)
Ventilation	Fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Appearance	Poudre couleur blanche
Odour	Inodore.
Odour threshold	Data not available
рН	Solution aqueuse 3.8-4.8 @ 33 g/L
Melting point / Freezing point	169°C (dec)
Initial boiling point	300°C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	2.6 mm @ 20°C-
Vapour density	Data not available
Relative density	1.435g/ml
Solubility	49.2 g/L @ 20 °C and pH 3.7
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid moisture.
Incompatible material	Acid anhydrides, alkali carbonates and hydroxides, metallic potassium and moisture.
Hazardous decomposition products	Boron oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

BORIC ACID

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and may cause inflammation of the conjunctiva.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, headache, dizziness, weakness, nausea and vomiting. Acute inhalation of boric acid may result in cyanosis characterized by a blue-gray coloring of the skin and lips caused by lack of oxygen.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Abdominal pain, kidney damage, cramps, diarrhea, headache, dizziness, sweating, salivation, erythema, nausea and vomiting, tachycardia, cyanosis, delirium, convulsions, coma and can lead to death. Ingesting 5 to 20 grams can be fatal in humans.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, conjunctivitis, nervous disorders, chest pain, cough, dyspnea, headache, dizziness, confusion, irritability, sweating, salivation, fatigue, erythema, nausea and vomiting. Chronic exposure to boric acid can cause borism, which is characterized by gastric disturbances and dry skin with rashes.
DL50 (specify species and route of entry)	2660 mg/kg.
CL50 (specify species and route of entry)	Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

	Toxicity to fish: LC50: Ptychocheilus lucius - 279 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 133 mg/l - 48 h LC50 - Daphnia magna (Water flea) - 53.2 mg/l - 21 d
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

Reproductive toxicity category 1B

SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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