
SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

PRODUCT NAME: Bolbac EFFECTIVE DATE: January 1st, 2009WHMIS CLASS: Class D -1A: Very Toxic
Class E: Corrosive Liquid CODE NO.: 6190T.D.G. CLASSIFICATION: Hydrochloric Acid Solution
Class 8 UN 1789 PG: IIMANUFACTURER NAME AND ADDRESS: BRODI SPECIALTY PRODUCTS LTD.
250 COCHRANE DRIVE, UNIT 9
MARKHAM, ONTARIO L3R 8E5
(905) 475-6084

MSDS PREPARED BY: MSDS CO-ORDINATOR, (877) 744-0751 EXT 205, BRODI SPECIALTY PRODUCTS LTD

EMERGENCY PHONE: CANUTEC (613) 996 6666

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS:	CAS#	WT%	ACGIH-TLV-C	LC50	LD50
Hydrochloric acid	7647-01-0	10-30	5 ppm (7 mg/m ³)	1562 ppm/4hr (Vapour Rat)	900 mg/kg (Oral Rabbit)

SECTION III- PHYSICAL DATA

BOILING POINT (DEG °C):	105°C (221°F)	SPECIFIC GRAVITY (H2O=1):	1.1
VAPOUR PRESSURE (mm Hg):	(3040 @ 20°C) based on data for: Hydrochloric acid	PERCENT VOLATILE (WT%):	99%
VAPOUR DENSITY (AIR=1):	Similar	EVAPORATION RATE (Water=1):	Similar
SOLUBILITY IN WATER:	Soluble	PH (AS SUPPLIED):	<1.0
APPEARANCE AND ODOUR:	White, Opaque, pungent odour	VISCOSITY:	Not available

SECTION IV- FIRE AND EXPLOSION DATA

FLAMMABILITY:	Not flammable
FLASH POINT:	Not applicable
LEL:	Not applicable
UEL:	Not applicable
HAZARDOUS COMBUSTION PRODUCTS:	Not applicable
MEANS OF EXTINCTION:	Treat for surrounding material.
SPECIAL FIRE HAZARDS:	None known at this time.

SECTION V- REACTIVITY DATA

CONDITIONS FOR CHEMICAL INSTABILITY:	Stable
INCOMPATIBILITY:	Extremely reactive or incompatible with metals, alkalis, halogenated compounds. Slightly reactive to reactive with moisture.
HAZARDOUS DECOMPOSITION:	Hydrogen and chlorine gas.

SECTION VI- TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: Skin contact, inhalation, ingestion

EFFECTS OF ACUTE EXPOSURE:

Very dangerous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering and itching. Skin inflammation is characterized by itching, scaling, reddening or occasionally, blistering.

EFFECTS OF CHRONIC EXPOSURE:

SKIN:	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
IRRITANCY:	Hazardous by WHMIS criteria.
RESPIRATORY TRACT SENSITIZATION:	No data available.
CARCINOGENIC EFFECTS:	Insufficient data available
TERATOGENIC EFFECTS:	Insufficient data available
MUTAGENIC EFFECTS:	Insufficient data available
SYNERGISTIC MATERIALS:	Not available

SECTION VII-PREVENTATIVE MEASURES

GLOVES:	Gloves (impervious).
EYE PROTECTION:	Splash goggles.
RESPIRATORY PROTECTION:	If the TLV (50 ppm) of the product or any component is exceeded a NIOSH/MSHA jointly approved air supplied respirator is advised in the absence of proper environmental controls.
OTHER PROTECTIVE EQUIPMENT:	As required by employer codes.
ENGINEERING CONTROLS:	General ventilation is normally adequate. Use local exhaust for elevated temperature controls.
LEAK AND SPILL PROCEDURE:	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered-labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
WASTE DISPOSAL:	Review federal, provincial and local government requirements prior to disposal.
STORAGE REQUIREMENTS:	Store in closed containers. Store away from incompatible materials. Ensure storage area has adequate ventilation.

SECTION VIII- FIRST AID

EYE:	Immediately flush with water for 15 minutes. Call a doctor immediately.
SKIN:	Rinse with soap and water. Call a doctor if irritation develops and persists. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
INHALATION:	Remove to fresh air. If symptoms persist, call a doctor.
INGESTION:	Do not induce vomiting. Rinse mouth with water, drink two or more glasses of water. Contact a doctor immediately. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

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