SAFETY DATA SHEET

Weldphos Black

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Weldphos Black**
Product code:	5057
Recommended use of the chemical and restrictions on use:	Surface Finishing, other manufacturing applications.
Chemical family:	Inorganic acids.
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635 Toronto, ON, M1V 5K2 (416) 754-7211
24 Hr. Emergency phone #	**CANUTEC (613) 996-6666**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:
Acute Toxicity - Oral - Category 3
Acute Toxicity - Inhalation - Vapour - Category 2
Skin Corrosion/Irritation - Category 1
Serious Eye Damage/Eye Irritation - Category 1

Label elements:



Signal word: Danger

Hazard statements:
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 (In case of inadequate ventilation) wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353+P363 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.
P321 Specific treatment is urgent (see label).
P403+P235 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards: No additional hazards available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Mixture

Ingredient name	CAS Number	Concentration (%)
Hydrochloric acid	7647-01-0	70-100
Antimony Trioxide	1309-64-4	10-30

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion: Rinse mouth with water. Immediately after ingestion: give lots of water to dilute. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately call a POISON CENTER or doctor/physician. Call Poison Information Centre. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

Inhalation: Get medical attention immediately. Call a poison center or physician. Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Get medical attention immediately. Call a poison center or physician. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open. Chemical burns must be treated promptly by a physician.

Most important symptoms and effects, acute:

Hydrogen chloride or hydrochloric acid is a corrosive acid. Chronic exposure may be associated with changes in pulmonary function, chronic bronchitis, dermatitis, erosion of dental enamel, conjunctivitis and upper respiratory tract abnormalities.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable: Dry chemical, foam, carbon dioxide, water fog.

Unsuitable: None known.

Hazardous thermal decomposition products: Hydrogen Chloride and Hydrogen gas.

Special protective: Wear full protective clothing, including helmet, self-contained positive

actions for fire-fighters:	pressure or pressure demand breathing apparatus, protective clothing and face mask.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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 and materials for containment and cleaning up:	Plug the leak, cut off the supply. Mix with large amounts of DRY inert absorbent material such as DRY soda ash or DRY sand. The soda ash will react with the acid releasing carbon dioxide. Make sure there is sufficient ventilation before neutralizing the acidic material. Scoop absorbed substance into closing containers. Take collected spill to proper disposal company. Wash clothing and equipment after handling.
Special spill response procedures:	In case of transportation accident, contact CANUTEC (613) 996-6666.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Put on appropriate personal protective equipment. Avoid exposure -obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.
Conditions for safe storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Incompatible materials:	Oxidizing agents, strong alkalis, cyanides, sulfides, and carbides.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	**Exposure limits**
Hydrochloric acid	**ACGIH** 2 ppm Ceiling **NIOSH** 5 ppm Ceiling ; 7 mg/m3 Ceiling **OSHA**

	5 ppm Ceiling ; 7 mg/m3 Ceiling

There are no biological limit values for any of this product's components.

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. Emergency eye wash stations and safety showers should be available in the immediate vicinity of any potential exposure.
Individual protection measures:	Eyes/face: Chemical splash goggles and face shield. Skin: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical. Personal protective equipment for the body should be corrosion proof. Respiratory: 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. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid.
Odour:	Pungent
Odour threshold:	Not available.
pH:	< 1
Melting/freezing point:	Not available
Initial boiling point and boiling range:	110 °C
Flash point:	Not applicable.
Evaporation rate:	Not available.
Flammability:	Not available.
Upper and lower flammability limits:	Not available.
Vapour pressure:	28 mm Hg @20°C
Vapour density:	1.2
Relative density:	1.14 – 1.16
Solubility:	Soluble in water
Partition coefficient n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Same as water

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Reacts violently with strong alkaline substances.
Chemical stability:	The product is stable.
Possibility of hazardous	Under normal conditions of storage and use, hazardous reactions will not

reactions:	occur.
Conditions to avoid:	Avoid contact with incompatible materials.
Incompatible materials:	Oxidizing agents, strong alkalis, cyanides, sulfides, and carbides.
Hazardous decomposition products:	Hydrogen chloride, hydrogen, and chlorine.

SECTION 11: TOXICOLOGICAL INFORMATION

Potential health effects (acute):	EYE: Causes serious eye damage. Adverse symptoms may include pain, burns, redness and itching. INHALATION: Causes shortness of breath, coughing, burning sensation, and headache. SKIN: Causes severe burns. Symptoms include redness, burns, itching. INGESTION: Causes burns to gastrointestinal tract, nausea, vomiting, pain, severe diarrhea.
Delayed and immediate effects, chronic effects from short and long term exposure:	Product is a corrosive material. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Permanent blindness may occur.
Potential chronic health effects:	Long term exposure to small concentrations lead to dry skin, skin rash and inflammation. Inflammation of respiratory tract.
Carcinogenicity:	Not listed as a carcinogen under OSHA, ACGIH or IARC.
Mutagenicity:	No information available.
Teratogenicity:	No information available.
Developmental effects:	No information available.
Fertility effects:	Not suspected of damaging fertility.
Sensitization:	No information available.

Acute/chromic toxicity (component analysis):

Product	Result	Species	Dose	Exposure
Hydrochloric acid (7647-01-0)	LD50, oral	Rat	238-277 mg/kg	-
	LD50, dermal	Rabbit	>5010 mg/kg	
	LC50, inhale	Rat	1.68 mg/L	1 hr
Antimony Trichloride (10025-91-9)	LD50, oral	Rat	525 mg/kg	-

Specific target organ toxicity single exposure:

Target organs:	Causes respiratory irritation.
Aspiration hazard:	Not available.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Name	Result	Species	Exposure
Hydrochloric acid	LC50 20.5mg/L	Freshwater fish, Lepomis macrochirus	96 hours

Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Not bioaccumulative

Mobility in soil: Will likely be mobile in the environment due to its water solubility.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: 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 nonrecyclable 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.

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	UN1789
UN proper shipping name:	HYDROCHLORIC ACID
Transport hazard class:	8
Packing group:	II
Environmental hazard:	No.
Special precautions for user:	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: REGULATORY INFORMATION

Canada inventory (DSL): Listed.

SECTION 16: OTHER INFORMATION

Revision date: February, 2024
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

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