



SAFETY DATA SHEET

FORMULA BL912

SECTION 01: IDENTIFICATION

Product identifier	FORMULA BL912	
Other means of identification	N/AP	
Recommended use	Acid Cleaner	
Recommended restrictions	Reserved for industrial and professional use.	
Manufacturer		
Company name	Mega-Lab Manufacturing Co. Ltd.	Supplier's Name
Address	3-25 Planchet Road Concord, Ontario, Canada L4K 2C5	Supplier's Address
Emergency Tel:	905.532.9000	

SECTION 02: HAZARD(S) IDENTIFICATION

Hazard Classification	Acute Toxicity, Oral	Category 3
	Acute Toxicity, Inhalation	Category 3
	Skin Corrosion/Irritation	Category 1
	Serious Eye damage/eye irritation	Category 1
	Corrosive to Metals	Category 1
	Specific Target Organ Toxicity — Single Exposure	Category 3

Label elements



Signal Word **Danger**

Hazard Statement H301: Toxic if swallowed
H331: Toxic if inhaled
H314: Causes severe skin burns and eye damage
H290: May be corrosive to metals
H335: May Cause Respiratory Irritation

Precautionary Statement P264: Wash hands thoroughly after handling.
P262: Do not get in eyes, on skin, or on clothing.
P260: Do not breathe mists/vapors.
P303+361+353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P403+233: Store in a well ventilated place. Keep container tightly closed.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration %
Hydrofluoric Acid	7664-39-3	3-7
Phosphoric Acid	7664-38-2	3-7
Ethoxylated Alcohol	9002-92-0	1-5
2-Butoxyethanol	111-76-2	1-5

SECTION 04: FIRST-AID MEASURES

Inhalation	Remove to fresh air. Get medical attention if symptoms occur.
Skin contact	Wash off immediately with plenty of water. Wash clothing before reuse. Get medical attention if symptoms occur.

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Eye	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	See Section 11 for more detailed information on health effects and symptoms.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Keep containers cool by water spray.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Not considered combustible. Burning produces obnoxious and toxic fumes.
Special protective equipment and precautions for firefighters	Wear full protective equipment including a self-contained breathing apparatus.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Ensure adequate ventilation.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not get in eyes, on skin or on clothing.
Conditions for safe storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid extreme temperatures. Keep out of the reach of children.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	Overall Product: None established. Ingredient: 2-Butoxyethanol Agency: ACGIH TLV, Limit Type: TWA 20.0 ppm Agency: OSHA, Limit Type: PEL 240 mg/m3 Ingredient: Hydrofluoric Acid Agency: ACGIH TLV, Limit Type: TWA 0.5 ppm Ingredient: Phosphoric Acid Agency: ACGIH TLV, Limit Type: TWA: 1 mg/m3: STEL: 3 mg/m3 Agency: OSHA PEL, Limit Type: TWA: 1 mg/m3 , STEL:3 mg/m3 Agency: NIOSH, Limit Type: TWA: 1 mg/m 3, STEL: 3 mg/m3
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Appropriate Engineering Controls	Effective exhaust ventilation system.
Personal Protective Equipment	Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Gloves	Rubber, vinyl or neoprene
Respiratory	Not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Eye	Wear eye protection/face protection.
Clothing	Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Odour	Chemical odour
Physical State	Liquid
Color	Clear light pink
Odour Threshold	No data available.
pH	<1.0
Freezing Point (°C)	No data available.
Initial Boiling Point (°C)	No data available.
Flashpoint (°C)	No data available.
Evaporation Rate	No data available.
Flammability	No data available.
Lower Explosive Limit	No data available.
Upper Explosive Limit	No data available.
Lower Flammability Limit	No data available.
Upper Flammability Limit	No data available.
Vapour Pressure (mm)	No data available.
Vapour Density (Air = 1)	No data available.
Relative Density	>1
Solubility	Soluble
Partition coefficient (n-octanol/water)	No data available.

SECTION 10: STABILITY AND REACTIVITY

Auto Ignition Temp. (°C)	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.

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Reactivity	This material is considered to be non reactive under normal use conditions.
Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Reaction with certain metals generate flammable & potentially explosive hydrogen gas.
Conditions to avoid	Acids, extremes of temperature and direct sunlight.
Incompatible Materials	Most metals and many inorganic materials.
Hazardous Decomposition Products	Hydrogen fluoride gas can be released when in contact with metals.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	☒ Skin Contact ☒ Eye Contact ☐ Ingestion ☒ Skin Absorption ☒ Inhalation
Toxicological Information	Signs and Symptoms of Exposure Based on test data and/or information on the components, this material may produce the following health effects: EYES: Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva. Eye contact may cause serious damage. SKIN: Brief contact may cause irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling and possible tissue destruction. INHALATION: High vapor concentrations may be irritating to respiratory tract. Symptoms may include coughing and difficulty in breathing. INGESTION: Damage or chemical burns to mouth, throat and stomach. Symptoms include pain, nausea, vomiting and diarrhea. Chronic Exposure : Health injuries are not known or expected under normal use. Toxicity Respiratory or skin sensitization : no data available Carcinogenicity : no data available Reproductive effects : no data available Germ cell mutagenicity : no data available Teratogenicity : no data available

Numerical Measures Of Toxicity

Hazardous Ingredients	LD ₅₀ /LC ₅₀ Specify Species and Route
2-Butoxyethanol	LD50=1400mg/kg (ORAL,RAT)
Hydrofluoric Acid	LD50 Not available. LC50 544ppm/4H (INHALATION, RAT)
Phosphoric Acid	LD50 (Oral, Rat) 1530 mg/kg LD50 (Dermal, Rabbit) 2730 mg/kg LC50 (Inhalation, Rat) >850 mg/m3 (1h)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available.
Persistence and degradability	No data available.

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Persistence and degradability

Bioaccumulative potential	No data available.
Mobility in soil	No data available
Other adverse effects	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods	In accordance with municipal, provincial and federal regulations.
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SECTION 14: TRANSPORT INFORMATION

UN number	2922
TDG Classification	Class 8 (6.1)
Packing group	II
Special Shipping Instructions	Corrosive Liquids Toxic, N.O.S. Hydrofluoric Acid Class 8 (6.1) UN 2922 Packaging Group II .

SECTION 15: REGULATORY INFORMATION

Regulatory Information	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
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SECTION 16: OTHER INFORMATION

N/AP = Not Applicable
N/AV = Not Available
ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
GHS: Globally Harmonized System
HPR : Hazardous Products Regulations
IARC: International Agency for Research on Cancer
NIOSH: The National Institute for Occupational Safety and Health
NTP : National Toxicology Program
OSHA : United States Department of Labor - Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TWA: Time-Weighted-Average

Prepared By: Mega-Lab Manufacturing Co. Ltd.

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