

SECTION 1 - PRODUCT IDENTIFICATION

Product identifier/Trade name: MURIATIC ACID
Product code/Internal Identification: None
Product use/Description: Acid Cleaner for ceramics.
Product chemical name: Mixture
Chemical family: N/Ap
MSDS preparation/review date: December 07, 2020
Supplier identifier: GROUPE GILCO INC.
 4001 Boulevard Industriel, LAVAL, QUEBEC, H7L 4S3
 Tel : 514 858 7777 Fax : 514 858 5666
Manufacturer identifier: Same as supplier
Emergency phone number: (613) 996-6666 (CANUTEC)
WHMIS Classification: D1A – Toxic material with immediate and serious effects
 E – Corrosive material


SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS #	% (weight)	LD ₅₀ (route, species)	LC ₅₀ (species)
Hydrochloric acid	7647-01-0	40-50	900 mg/kg (Oral, rabbit)	388 mg/m ³ 4 Hrs (rat)

SECTION 3 - HAZARDS IDENTIFICATION
Emergency Overview

Clear liquid. Characteristic odor. DANGER! Corrosive and toxic liquid. Causes eye and skin irritation or burn. Harmful if inhaled. May cause headache, nausea, dizziness and other central nervous system effects.

POTENTIAL HEALTH EFFECTS

Primary entry route(s): Skin contact, skin absorption, eye contact, ingestion and inhalation.

Effects of short-term (acute) exposure:

Inhalation: May cause irritation to the nose, throat and respiratory tract, and central nervous system depression. Symptoms may include headache, nausea, vomiting, loss of coordination and other central nervous system effects.

Skin: Direct skin contact may cause moderate to severe irritation or burn.

Eye: Direct eye contact may cause moderate eye irritation or burn. Symptoms may include redness, stinging, tearing and pain.

Ingestion: Ingestion may cause irritation or burn to the mouth, throat and stomach. Symptoms may include dizziness, drowsiness, nausea, headache and other central nervous system effects.

Effects of long-term (chronic) exposure:

Prolonged or repeated contact may cause drying, cracking and defatting of the skin (dermatitis).

Other important hazards:

Refer to Section 11, Toxicological Information, for further information.

SECTION 4 - FIRST AID MEASURES
Inhalation:

Remove source of contamination or have victim move to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.

Skin contact:

Wash contaminated area with running water for at least 20 minutes, while removing contaminated clothing. Obtain medical attention. Launder contaminated clothing before re-use.

Eye contact:

Immediately flush the contaminated eye(s) with gently flowing water for at least 20 minutes. Obtain medical attention.

Ingestion:

NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability:

Material will ignite when exposed to temperatures above the flash point.

Flash point (Method): > 93.3 °C

Lower flammable limit (% by volume): N/Av

Upper flammable limit (% by volume): N/Av

Sensitivity to mechanical impact: Probably not sensitive.

Sensitivity to static discharge: Probably not sensitive.

Auto-ignition temperature: N/Av

Suitable extinguishing media:

Carbon dioxide, dry chemical powder and appropriate foam.

Special fire-fighting procedures/equipment:

During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

Hazardous combustion products: Carbon oxides and other irritating fumes and smoke.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Remove all ignition sources. Remove or isolate flammable and combustible materials. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

Spill response/Cleanup:

Ventilate area of release. Eliminate all sources of ignition. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Environmental precautions:

Confine spill, preventing it from entering sewer lines or waterways. Dispose of as per local, state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

Safe handling procedures:

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Do not use near welding operations, flames or hot surfaces. Handling equipment should be properly grounded. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of vapours or mists. Keep away from incompatible materials such as strong oxidizing materials. Keep containers closed when not in use. Empty containers are always dangerous. Assume that empty containers contain residues which are hazardous.

Storage requirements:

Store in a cool, well-ventilated area, away from heat and ignition sources. Store away from incompatible materials. Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

Incompatible materials:

STRONG OXIDIZING MATERIALS (e.g. Chlorides, Peroxides), strong bases, some metals.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION				
Exposure limits: There is no available data for the product. See below for individual ingredient exposure limits.				
Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Hydrochloric acid	*5 ppm	N/Av	*2 ppm	N/Av
Engineering controls: Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits.				
Respiratory Protection: Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown.				
Protective Clothing/Equipment: Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.				
General Hygiene Considerations: Avoid generating high concentrations of vapours or mists. Avoid contact with skin and eyes. Avoid breathing vapours or mists. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.				

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
Physical state, colour and odour:	Clear liquid ,characteristic odor.		
Odour threshold:	N/Av		
pH :	<1	Boiling point:	N/Av
Melting/freezing point:	N/Av	Vapour pressure (@ 20°C):	N/Av
Coefficient of oil/water distribution:	N/Av	Solubility in water:	Easy
Specific gravity or density (water = 1):	1.3	Vapour density (Air = 1):	> 1 heavier than air
Evaporation rate (n-Butyl acetate = 1):	N/Av	% volatile by volume:	N/Av

SECTION 10 - REACTIVITY AND STABILITY DATA	
Stability and reactivity:	Stable under the recommended storage and handling conditions prescribed.
Polymerization:	Hazardous polymerization will not occur.
Conditions to avoid:	Avoid heat, sparks, direct flame and other ignition sources.
Materials to avoid:	Incompatible materials (see Section 7).
Hazardous decomposition products:	None known. Refer to 'Hazardous combustion products', Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION	
Toxicological data:	There is no available data for the product itself, only for the ingredients. For more details, refer to Section 2.
Carcinogenicity:	No ingredient listed by IARC, ACGIH, NTP or OSHA as a carcinogen.
Teratogenicity, mutagenicity, other reproductive effects:	N/Av
Skin sensitization:	N/Av
Respiratory tract sensitization:	N/Av
Conditions aggravated by exposure:	None known
Synergistic materials:	N/Av

SECTION 12 - ECOLOGICAL INFORMATION		
Environmental effects:	There is no available data on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.	
Important environmental characteristics:	N/Av	
Aquatic toxicity:	N/Av	
SECTION 13 - WASTE DISPOSAL		
Handling and storage conditions for disposal:	Store material for disposal as indicated in Handling and Storage (Section 7). Do not puncture or incinerate empty spray cans.	
Methods of disposal:	Review federal, provincial and local government requirements prior to disposal.	
SECTION 14 - TRANSPORTATION INFORMATION		
Transportation of Dangerous Goods Regulations (TDGR) :		
<i>Shipping description:</i>	This product is regulated according to TDGR.	
Proper shipping name:	HYDROCHLORIC ACID	
Class:	8	
Identification number:	UN1789	
Packing group:	II	
Special case:	Product can also be shipped as a LIMITED QUANTITY/CONSUMER COMMODITY according to TDG Section 1.17.	
SECTION 15 - REGULATORY INFORMATION		
WHMIS information:		
Product is regulated according to the Controlled Product Regulations (CPR) in Canada. Refer to Section 1 for the appropriate WHMIS classification.		
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.</i>		
Canadian Environmental Protection Act (CEPA) information:		
The ingredients in this product are listed on the DSL.		
United States OSHA information:		
This product is regulated according to OSHA. This MSDS contains all the information required by OSHA.		
United States TSCA information:		
The ingredients in this product are listed on the TSCA.		
United States California (Proposition 65):		
No ingredient listed. This product may contain traces of chemicals known to the State of California to cause cancer and/or developmental reproductive harm.		
United States New Jersey (Right To Know):		
The ingredients below are listed:		
Hazardous Ingredients	CAS #	% (weight)
Hydrochloric acid	7647-01-0	40-50
This product may contain traces of other chemicals...		
National Fire Protection Association (NFPA):		
HEALTH: 3	FLAMMABILITY: 1	INSTABILITY: 0 SPECIAL HAZARDS: Acid.
HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe		

SECTION 16 - OTHER INFORMATION	
Prepared by:	Regulatory affairs Groupe Gilco Inc
Telephone number:	Telephone : 514 858 7777
MSDS preparation/review date:	December 07, 2020
References:	
	<ol style="list-style-type: none"> 1. Material Safety Data Sheets from manufacturer/supplier. 2. CSST, Répertoire Toxicologique, Les produits, 2007. 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2007.
Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
LC	Lethal concentration
LD	Lethal Dosage
N/Ap	Not applicable
N/Av	Not available
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WEEL	Workplace Environmental Exposure Level
WHMIS	Workplace Hazardous Materials Information System

End of the MSDS