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Material Safety Data Sheet Hydrochloric Acid 0.0100N



Section 1. Product and Company Identification

Product name	: Hydrochloric Acid 0.0100N
Product code	: VW3237
Synonym	: None.
Material uses	: Other non-specified industry: Laboratory Reagent
Manufacturer	: EMD Chemicals Inc.
	P.O. Box 70
	480 Democrat Road
	Gibbstown, NJ 08027
	856-423-6300 Technical Service
	Monday - Friday: 8:00 - 5:00 PM
Validation date	***
Print date	:
In case of emergency	: 800-424-9300 CHEMTREC (USA)
	613-996-6666 CANUTEC (Canada)
	24 Hours/Day: 7 Days/Week

Section 2. Hazards Identification

	, inclusion
Physical state	: Liquid.
Odor	: Odorless.
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview	: CAUTION!
	MAY CAUSE SKIN IRRITATION.
	Avoid contact with skin and clothing. Wash thoroughly after handling.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eyes	: No known significant effects or critical hazards.
Skin	: Moderately irritating to the skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenicity / Reproductive toxicity	: No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure	: Repeated skin exposure can produce local skin destruction or dermatitis.
See toxicological information (see	ction 11)

Section 3. Composition/Information on Ingredients United States

Name	CAS number	% by Weight
Hydrochloric Acid	7647-01-0	0.1 - 0.5
Water	7732-18-5	97 - 99

Section 4. First Aid Measures

Eye contact	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation
Skin contact	 occurs. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	 Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give

small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. : No action shall be taken involving any personal risk or without suitable training.

Protection of first-aiders

Section 5. Fire Fighting Measures

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Flammability of the product	:	No specific hazard.
Extinguishing media		
Suitable	:	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	:	None known.
Special exposure hazards	:	Not available.
Special protective equipment for	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
fire-fighters		(SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and Storage

Handling	:	Avoid contact with skin and clothing. Wash thoroughly after handling.
Storage	:	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Consult local authorities for	r acceptable exposure limits.
Engineering measures	: No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Personal protection	-
Eyes	 Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: safety glasses with side-shields
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Body: Recommended: lab coat and gloves
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and Chemical Properties

Physical state	: Liquio
Color	: Clear.
Odor	: Odorle
Boiling/condensation point	: The
Melting/freezing point	: May
Evaporation rate	: 0.36 (

- d. Colorless.
- ess.
 - lowest known value is 99.9°C (211.8°F) (Water).
- start to solidify at -0.1°C (31.8°F) based on data for: Water.
- (Water) compared with(n-Butyl Acetate =1)

Section 10. Stability and Reactivity

Stability and reactivity	:
Incompatibility with various	:
substances	
Hazardous decomposition	:
products	
Hazardous polymerization	

- The product is stable.
- Reactive or incompatible with the following materials: organic materials and metals.
- : HCl gas
 - : Will not occur.

Section 11. Toxicological Information

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Chronic effects on humans	: CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for humans or animals.) by ACGIH, 3 (Not classifiable for humans.) by IARC [Hydrochloric Acid].
Other toxic effects on humans	: Hazardous in case of skin contact (irritant).
	Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive), of ingestion, of inhalation (lung irritant, lung sensitizer, lung corrosive).
Specific effects	
Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Teratogenicity / Reproductive toxicity	: No known significant effects or critical hazards.
Sensitization	
Ingestion	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Eyes	: No known significant effects or critical hazards.
Skin	: Moderately irritating to the skin.
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Section 12. Ecological Information

Environmental precautions Toxicity of the products of biodegradation

- : No known significant effects or critical hazards.
- : The products of degradation are more toxic than the product itself.

Section 13. Disposal Considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport InformationRegulatory informationUN numberProper shipping nameClassPG*LabelAdditional informationDOT Classification--CHEMICALS, N.O.S.----PG* : Packing group------

Section 15. Regulatory Information

United States	
HCS Classification	: Irritating material
U.S. Federal regulations	: TSCA 8(b) inventory: Listed
-	SARA 302/304/311/312 extremely hazardous substances: No products were found.
	SARA 302/304 emergency planning and notification: No products were found.
	SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

	Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: Hydrochloric Acid Clean Air Act (CAA) 112 accidental release prevention: Hydrochloric Acid				
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: Hydrochloric Acid				
State regulations	Pennsylvania RTK: Hydrochloric Acid : (environmental hazard, generic environmental hazard)				
State regulations	Massachusetts RTK: Hydrochloric Acid				
	New Jersey: Hydrochloric Acid 0.0100N				
Canada					
WHMIS (Canada)	: Not controlled under WHMIS (Canada).				
CEPA DSL/CEPA NDSL	: CEPA DSL: Water				
	ed according to the hazard criteria of the CPR and the MSDS contains all the information required				
by the CPR.					
EU regulations	This product is not allocated according to EU localation				
Risk phrases International regulations	: This product is not classified according to EU legislation.				
International lists	: Australia (NICNAS): Hydrochloric Acid ; Water				
	China: Hydrochloric Acid				
	Germany water class: Hydrochloric Acid				
	Japan (METI): Hydrochloric Acid ; Water				
	Korea (TCCL): Hydrochloric Acid ; Water				
	Philippines (RA6969): Hydrochloric Acid ; Water				

Section 16. Other Information

Label requirements		: CAUTION!			
-		MAY CAUSE SKIN IRRITATION.			
National Fire Protection	:		0)	Flammability
Association (U.S.A.)		Health	0	0	Instability
					Special

Notice to reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.