

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/20/2021 Supersedes: 06/20/2000 Version: 1.0

SECTION 1: Identification			
I.1. Identification			
Product form	: Mixture		
Trade name	: 4% HYDROCHLORIC ACID IN E	DISTILLED WATE	٦
Product code	: 24199B		
Formula	: HCI		
I.2. Recommended use and restriction	is on use		
Recommended use	: Use as laboratory reagent, Manu	lfacture of substan	ces
I.3. Supplier			
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.	<u>com</u>		
I.4. Emergency telephone number			
Emergency number	: 24-hour emergency phone numb	er ChemTel 1-800	-255-3924
SECTION 2: Hazard(s) identification	n		
2.1. Classification of the substance or			
GHS US classification			
Serious eye damage/eye irritation Category 2	2A Causes serious eye irritati	ion	
2.2. GHS Label elements, including pro GHS US labeling	ecautionary statements		
Hazard pictograms (GHS US)			
Signal word (GHS US)	: Warning		
Hazard statements (GHS US)	: Causes serious eye irritation		
Precautionary statements (GHS US)	Wash hands, forearms and face Wear protective gloves/protective IF IN EYES: Rinse cautiously wit and easy to do. Continue rinsing If eye irritation persists: Get med	e clothing/eye prot h water for severa	ection/face protection. I minutes. Remove contact lenses, if presen
2.3. Other hazards which do not result	in classification		
lo additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
	ion on ingr <u>edients</u>		
SECTION 3: Composition/Informat			
3.1. Substances			
Substances Not applicable			
Not applicable	Product identifier	%	GHS US classification

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Full text of hazard classes and H-statements : see section 16

Full text of hazard classes and H-statements :	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	 Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and eff	ects (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes. Eye irritation.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention and s	special treatment, if necessary
Treat symptomatically.	, poora, noordan, n noordan, j
SECTION 5: Fire-fighting measures	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the	
Hazardous decomposition products in case c fire	of : Toxic fumes may be released.
5.3. Special protective equipment and	precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	 Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
moulous for clourning up	
Other information	Dispose of materials or solid residues at an authorized site
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	: Dispose of materials or solid residues at an authorized site.
6.4.Reference to other sectionsFor further information refer to section 13.	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	: Dispose of materials or solid residues at an authorized site.
6.4.Reference to other sectionsFor further information refer to section 13.SECTION 7: Handling and storage7.1.Precautions for safe handling	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage	 Dispose of materials or solid residues at an authorized site. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
6.4.Reference to other sectionsFor further information refer to section 13.SECTION 7: Handling and storage7.1.Precautions for safe handling	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe
6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
6.4. Reference to other sections For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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.1.	ION 8: Exposure controls/personal protection Control parameters
4% I	HYDROCHLORIC ACID IN DISTILLED WATER
No a	additional information available
Hyd	rochloric Acid (7647-01-0)
No a	additional information available

Appropriate engineering controls Environmental exposure controls

: Ensure good ventilation of the work station.: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



ECTION 9: Physical and chemical properties	
9.1. Information on basic physical and ch	nemical properties
Physical state	: Liquid
Appearance	: clear colorless liquid.
Color	: Colorless
Odor	: Mixture contains one or more component(s) which have the following odour:
Odor threshold	: No data available
рН	: 1
Melting point	: 32
Freezing point	: No data available
Boiling point	: 212
Flash point	: >≥200
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: no data
Relative vapor density at 20°C	: no data
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: 1
Serious eye damage/irritation	: Causes serious eye irritation. pH: 1
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Hydrochloric Acid (7647-01-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Hydrochloric Acid (7647-01-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes. Eye irritation.
Symptoms/effects after ingestion	: Burns.
SECTION 12: Ecological information	

SECTION 12: Ecol	ogical information
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.

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12.2.	Persistence and degradability	
No addi	additional information available	
12.3.	Bioaccumulative potential	
No addi	additional information available	
12.4.	. Mobility in soil	
No addi	additional information available	
12.5.	Other adverse effects	
No addi	additional information available	

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
SECTION 14. Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	

. . .

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Hydrochloric Acid (7647-01-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

15.2. International regulations

CANADA

Hydrochloric Acid (7647-01-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations

No additional information available

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15.3. US State regulations

Component	State or local regulations
Hydrochloric Acid(7647-01-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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