

⊢⊑ Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date:24/02/2020 Revision date: 24/02/2025 : Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Trade name : HYDROCHLORIC ACID SOLN 0.1N

Product code : 208035x
Formula : HCl

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses and restrictions : For laboratory use only

1.3. Supplier's details

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

2.2. Label elements

Labelling according to the United Nations GHS

No labelling applicable

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
water	(CAS-No.) 7732-18-5	> 99.5	Not classified
hydrogen chloride	(CAS-No.) 7647-01-0	< 0.5	Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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 containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

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):









8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Translucent.
Colour : Colourless.
Odour : Odourless.
Odour threshold : No data available
pH : No data available

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pH solution : No data available Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available : No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Vapour pressure at 50 °C No data available Relative vapour density at 20 °C No data available Relative density : No data available Relative density of saturated gas/air mixture : No data available 1.00002 @ 20°C Density No data available Relative gas density Solubility Miscible with water. Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties : No data available : No data available Oxidising properties · No data available **Explosive limits** Lower explosive limit (LEL) No data available Upper explosive limit (UEL) : 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

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitisation : Not classified : Not classified Germ cell mutagenicity Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified

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STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

12.2. Persistence and degradability

HYDROCHLORIC ACID SOLN 0.1N	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

HYDROCHLORIC ACID SOLN 0.1N		
Bioaccumulative potential	No additional information available	

12.4. Mobility in soil

HYDROCHLORIC ACID SOLN 0.1N	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No 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

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA		
14.1. UN number				
1789	1789	1789		
14.2. Proper Shipping Name				
HYDROCHLORIC ACID	HYDROCHLORIC ACID	Hydrochloric acid		
14.3. Transport hazard class(es)	14.3. Transport hazard class(es)			
8	8	8		
8	8	Not applicable		
	14.4. Packing group			
III	III	III		
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No :	Dangerous for the environment : No		
No supplementary information available				

14.6. Special precautions for user

- SANS

Special provisions (SANS) : 223
Limited quantities (SANS) : 5 L
Limited quantities (SANS) : 5 L

Packagings, large packagings and IBCs

Packing instructions (SANS)

: P001, IBC03, LP01

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: T4 Portable tank and bulk containers instructions

(SANS)

Portable tank and bulk container special : TP1

provisions (SANS)

- IMDG

Special provisions (IMDG) : 223 : 5 L Limited quantities (IMDG) Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) TP1

: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE EmS-No. (Fire)

: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES EmS-No. (Spillage)

Stowage category (IMDG)

Properties and observations (IMDG) : Colourless liquid.An aqueous solution of the gas hydrogen chloride. Highly corrosive to most

metals. Causes burns to skin, eyes and mucous membranes.

- IATA

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) · 81

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

Safety, health, and environmental national regulations specific for the product

Regulatory reference SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS

10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National

Road Traffic Act 93 of 1996

SECTION 16: Other information

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Full text of H-statements:

H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

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