

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

DIOXONIC ACID (S066) NOTIF886

Version 1.0

Print Date 03.11.2023

Revision date / valid from 20.10.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : DIOXONIC ACID (S066) NOTIF886
Substance name : hydrochloric acid
Index-No. : 017-002-01-X
CAS-No. : 7647-01-0
EC-No. : 231-595-7
EU REACH-Reg. No. : 01-2119484862-27-xxxx
REACH Status : Each component of the product is either registered or exempted from registration obligations according to REACH Regulation (EC) No 1907/2006

UFI : X3ND-U0XG-N00Y-2X4Y
UFI code notified in : Belgium, Germany, Denmark, Estonia, Spain, Croatia, Ireland, Iceland, Lithuania, Luxembourg, Latvia, Malta, Netherlands, Norway, Portugal, Sweden

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

Use of the Substance/Mixture : Biocides

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag N.V.
Nijverheidslaan 38
BE 8540 Deerlijk
Telephone : +32 (0)56 77 6944
Telefax : +32 (0)56 77 5711
E-mail address : info@brenntag.be
Responsible/issuing person : Master Data Administration

Company : Brenntag Nederland B.V.
Donker Duyvisweg 44
NL 3316 BM Dordrecht
Telephone : +31 (0)78 65 44 944
Telefax : +31 (0)78 65 44 919
E-mail address : info@brenntag.nl
Responsible/issuing person : Master Data Administration

1.4. Emergency telephone number

700000001448

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EN

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Emergency telephone number : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245
 Netherland: National Poisoning Information Center - Bilthoven TEL: +31(0) 88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Corrosive to metals	Category 1	---	H290
Serious eye damage	Category 1	---	H318


For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.
 Physical and chemical hazards : See section 9/10 for physicochemical information.
 Potential environmental effects : Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols : 

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
 H318 Causes serious eye damage.

Precautionary statements

Prevention : P234 Keep only in original packaging.
 P280 Wear eye protection/ face protection.

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Response : P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P390 Absorb spillage to prevent material damage.

Hazardous components which must be listed on the label:

- hydrochloric acid

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
hydrochloric acid			
Index-No. : 017-002-01-X	>= 5 - < 10	Met. Corr.1	H290
CAS-No. : 7647-01-0		Skin Corr.1A	H314
EC-No. : 231-595-7		STOT SE3	H335
EU REACH-Reg. No. : 01-2119484862-27-xxxx			
		specific concentration limit	
		Met. Corr. 1; H290	
		>= 25 %	
		Skin Corr. 1A; H314	
		>= 25 %	
		Eye Dam. 1; H318	
		>= 25 %	
		STOT SE 3; H335	
		>= 25 %	
		Met. Corr. 1; H290	
		10 - < 25 %	
		Skin Corr. 1B; H314	

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10 - < 25 %
 Eye Dam. 1; H318
 10 - < 25 %
 STOT SE 3; H335
 10 - < 25 %
 Met. Corr. 1; H290
 1 - < 10 %
 Eye Dam. 1; H318
 1 - < 10 %
 Met. Corr. 1; H290
 0,1 - < 1 %

 Note B

For the full text of the H-Statements mentioned in this Section, see Section 16.
 For the full text of the Notes mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately.
If inhaled	: Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice. If symptoms call a physician.
In case of skin contact	: After contact with skin, wash immediately with plenty of water. If symptoms call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.No further information available.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.
- Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂)

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
- Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

- Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.
- : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.
- Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on personal protective equipment.
- See Section 13 for waste treatment information.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Avoid formation of aerosol. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Suitable packaging materials : Titanium, Synthetic material

Unsuitable packaging materials : , metals, Aluminium, Copper, Iron

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	hydrochloric acid	CAS-No. 7647-01-0
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		
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DNEL

Workers, Long-term - local effects, Inhalation : 8 mg/m3

DNEL

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Workers, short-term, Inhalation : 15 mg/m³

DNEL

General population, Long-term - local effects, Inhalation : 8 mg/m³

DNEL

General population, short-term, Inhalation : 15 mg/m³

Predicted No Effect Concentration (PNEC)

No PNEC value was derived. :

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
5 ppm, 8 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
10 ppm, 15 mg/m³
Indicative

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA):
5 ppm, 8 mg/m³

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Short Term Exposure Limit (STEL):
10 ppm, 15 mg/m³, (15 minutes)

Netherlands. OELs (binding), as amended, Short Term Exposure Limit (STEL):
15 mg/m³, (15 minutes)

Netherlands. OELs (binding), as amended, Time Weighted Average (TWA):
8 mg/m³

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
5 ppm, 8 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
10 ppm, 15 mg/m³
Indicative

Other Occupational Exposure Limit Values

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EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
5 ppm, 8 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
10 ppm, 15 mg/m³
Indicative

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA):
5 ppm, 8 mg/m³

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Short Term Exposure Limit (STEL):
10 ppm, 15 mg/m³, (15 minutes)

Netherlands. OELs (binding), as amended, Short Term Exposure Limit (STEL):
15 mg/m³, (15 minutes)

Netherlands. OELs (binding), as amended, Time Weighted Average (TWA):
8 mg/m³

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
5 ppm, 8 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
10 ppm, 15 mg/m³
Indicative

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
When aerosol or mist is formed use suitable respiratory protection.
Respiratory protection complying with EN 141.
CE-approved mask for acid gases and vapours (type E, yellow)

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and

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breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0,51 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : Aqueous solution
Physical state : liquid
Colour : clear
Odour : pungent
Odour Threshold : No data available
Freezing point : No data available
Boiling point/boiling range : ca. 108 °C
Flammability : No data available
Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Flash point : Not applicable
Auto-ignition temperature : No data available
Decomposition temperature : No data available

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Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	< 0,2 Concentration: 10 %
Viscosity		
Viscosity, dynamic	:	ca. 1,16 mPa.s
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	Solvent: Alcohol Solvent: Acetic acid Solvent: Acetone Solvent: Benzene Solvent: Chloroform Solvent: Ether
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Dispersion Stability	:	No data available
Vapour pressure	:	ca. 20 hPa
Relative density	:	No data available
Density	:	1,040 - 1,045 g/cm ³
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

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10.1. Reactivity

Advice : Reacts with the following substances:
Bases
Oxidizing agents

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

10.4. Conditions to avoid

Conditions to avoid : Avoid high temperatures.

10.5. Incompatible materials

Materials to avoid : Oxidizing agents, Bases

10.6. Hazardous decomposition products

Hazardous decomposition products : Hydrogen, Chlorine

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Data for the product

Acute toxicity

Oral

Acute toxicity estimate : > 2000 mg/kg) (Calculation method)Based on available data, the classification criteria are not met.

Inhalation

Based on available data, the classification criteria are not met.

Dermal

Based on available data, the classification criteria are not met.

Irritation

Skin

Result : Based on available data, the classification criteria are not met.

Eyes

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Result : Based on available data, the classification criteria are not met.

Sensitisation

Result : Based on available data, the classification criteria are not met.

CMR effects

CMR Properties

Carcinogenicity : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity

Single exposure

Remarks : Based on available data, the classification criteria are not met.

Repeated exposure

Remarks : Based on available data, the classification criteria are not met.

Component: hydrochloric acid CAS-No. 7647-01-0

Acute toxicity

Oral

Study scientifically not justified.

Inhalation

LC50 : 8,3 mg/l (Rat, male; 0,5 h; vapour)

Dermal

Study scientifically not justified.

Irritation

Skin

Result : (reconstructed human epidermis (RhE); Corrosive) (OECD Test Guideline 431)

Eyes

Result : corrosive effects (Bovine cornea) (OECD Test Guideline 437)

Sensitisation

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Result : not sensitizing (Mouse) (OECD Test Guideline 406)

CMR effects

CMR Properties

Carcinogenicity : Animal testing did not show any carcinogenic effects.
 Mutagenicity : In vitro tests did not show mutagenic effects
 Teratogenicity : No data available
 Reproductive toxicity : Study scientifically not justified.

Specific Target Organ Toxicity

Single exposure

Remarks : May cause respiratory irritation.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Aspiration hazard

No aspiration toxicity classification,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component: hydrochloric acid CAS-No. 7647-01-0

Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

SECTION 12: Ecological information

12.1. Toxicity

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Data for the product

Acute toxicity

Short-term (acute) aquatic hazard

Result : Based on available data, the classification criteria are not met.

Chronic toxicity

Long-term (chronic) aquatic hazard

Result : Based on available data, the classification criteria are not met.

Component: hydrochloric acid CAS-No. 7647-01-0

Acute toxicity

Fish

LC50 : 20,5 mg/l (Lepomis macrochirus (Bluegill sunfish); 96 h) (static test)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 0,45 mg/l (Daphnia magna (Water flea); 48 h) (static test; OECD Test Guideline 202)

algae

EC50 : 0,73 mg/l (Chlorella vulgaris (Fresh water algae); 72 h) (static test; OECD Test Guideline 201)

Bacteria

EC50 : 0,23 mg/l (activated sludge, urban; 3 h) (static test; OECD Test Guideline 209)

12.2. Persistence and degradability

Component: hydrochloric acid CAS-No. 7647-01-0

Persistence and degradability

Persistence

Result : (Related to: Water) decomposition by hydrolysis.

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Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:	hydrochloric acid	CAS-No. 7647-01-0
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Bioaccumulation

Result : study scientifically unjustified

12.4. Mobility in soil

Component:	hydrochloric acid	CAS-No. 7647-01-0
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Mobility

: No data available

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	hydrochloric acid	CAS-No. 7647-01-0
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Results of PBT and vPvB assessment

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

12.6. Endocrine disrupting properties

Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component:	hydrochloric acid	CAS-No. 7647-01-0
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Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

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12.7. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component: hydrochloric acid CAS-No. 7647-01-0

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Harmful effects to aquatic organisms due to pH-shift.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number

1789

14.2. UN proper shipping name

ADR : HYDROCHLORIC ACID SOLUTION
RID : HYDROCHLORIC ACID SOLUTION
IMDG : HYDROCHLORIC ACID SOLUTION

14.3. Transport hazard class(es)

ADR-Class : 8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction) 8; C1; 80; (E)

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code)

RID-Class : 8
 (Labels; Classification Code; Hazard Identification Number) 8; C1; 80
 IMDG-Class : 8
 (Labels; EmS) 8; F-A, S-B

14.4. Packaging group

ADR : III
 RID : III
 IMDG : III

14.5. Environmental hazards

Environmentally hazardous according to ADR : no
 Environmentally hazardous according to RID : no
 Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Netherlands : ABM: C (2)

Component:	hydrochloric acid	CAS-No. 7647-01-0
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. Regulation 273/2004, Drug Precursors, Category 3 : Scheduled substance Combined Nomenclature (CN) code: , 2806 10 00; Combined Nomenclature designation

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EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. Directive 98/8/EC, : Minimum purity: 999, g/kg; Private area and public health area
Annex 1, Active disinfectants and other biocidal products; Special provisions
substances in biocidal may apply; see text of legislation.
products

Deadline for Compliance: , 30 Apr 2016
Inclusion Date: , 1 May 2014
Expiry Date of Inclusion: , 30 Apr 2024

EU. Regulation No : EC Number: , 231-595-7; Listed
1451/2007 [Biocides],
Annex I, OJ (L 325)

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO
III) on major accident
hazards involving
dangerous substances,
Annex I

15.2. Chemical safety assessment

The chemical safety assessment of substances from this mixture has been done.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Full text of the Notes referred to under section 3.

Note B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on

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the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number

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REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	<p>The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.</p> <p>The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>

|| Indicates updated section.

DISTRIBUTOR COMPANY INFORMATION			
name	BRENNTAG N.V.	BRENNTAG Nederland B.V.	BRENNTAG SOUTH AFRICA (PTY) LTD
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activities	Distribution and export of chemicals and ingredients		
VAT number	BE0405317567	NL001375945B01	4740102209
emergency number(24/365)	+32 (0)56 77 69 44	+31 (0)78 6544 944	+27 (0)21 0201800
management systems: certifications	ISO 9001, ISO 14001, ISO 22000, FSSC 22000, GMP+ Feed, ESAD	ISO 9001, ISO 14001, ISO 22000, FSSC 22000, OHSAS 18001, GMP+ Feed, ESAD, AEO	ISO 9001, FSSC 22000