	SAFETY DATA SHEET	Page : 1/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

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

1.1. Product identifier

Trade name : Hydrogen chloride
 SDS no : NOAL_0069
 Chemical description : Hydrogen chloride
 CAS-No. : 7647-01-0
 EC-No. : 231-595-7
 EC Index-No. : 017-002-00-2
 Registration-No. : 01-2119484862-27
 Chemical formula : HCl

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

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to use.
 See the list of identified uses and exposure scenarios in the annex of the safety data sheet.
 Contact supplier for more information on uses.
 Uses advised against : Consumer use.

1.3. Details of the supplier of the safety data sheet

Company identification

AIR LIQUIDE Denmark A/S
 Høje Taastrupvej 42
 2630 Taastrup - DENMARK
 T +45 76 25 25 25
eunordic-sds@airliquide.com

E-Mail address (competent person) : eunordic-sds@airliquide.com

1.4. Emergency telephone number

Emergency telephone number : 112
 Availability
 (24 / 7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards	Gases under pressure : Liquefied gas	H280
Health hazards	Acute toxicity (inhalation:gas) Category 3	H331
	Skin corrosion/irritation, Category 1A	H314
	Serious eye damage/eye irritation, Category 1	H318

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :




Signal word (CLP) :

Danger

Hazard statements (CLP) :

H280 - Contains gas under pressure; may explode if heated.

	SAFETY DATA SHEET	Page : 2/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

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

Precautionary statements (CLP)

- Prevention : P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
- Response : P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label)..
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower..
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor.
- Storage : P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.
P405 - Store locked up.
- Disposal considerations : P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation..

2.3. Other hazards

: None.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Composition [V-%]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen chloride	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-00-2 (Registration-No.) 01-2119484862-27	100	Press. Gas (Liq.), H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318

Contains no other components or impurities which will influence the classification of the product.

3.2. Mixtures

: Not established.


SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
- Skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.
- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.
- Ingestion : Ingestion is not considered a potential route of exposure.

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

: May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product.
Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.
Refer to section 11.

	SAFETY DATA SHEET	Page : 3/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069 Country : DK / Language : EN

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

- : Obtain medical assistance.
- Treat with corticosteroid spray as soon as possible after inhalation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

- Specific hazards : Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : None that are more hazardous than the product itself.

5.3. Advice for firefighters

- Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.
If possible, stop flow of product.
Use water spray or fog to knock down fire fumes if possible.
Move containers away from the fire area if this can be done without risk.
- Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.
Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- : Try to stop release.
- Evacuate area.
- Monitor concentration of released product.
- Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- Use chemically protective clothing.
- Ensure adequate air ventilation.
- Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
- Act in accordance with local emergency plan.
- Stay upwind.

6.2. Environmental precautions


- : Reduce vapour with fog or fine water spray.
- Try to stop release.

6.3. Methods and material for containment and cleaning up

- : Hose down area with water.
- Keep area evacuated and free from ignition sources until any spilled liquid has evaporated (ground free from frost).
- Wash contaminated equipment or sites of leaks with copious quantities of water.

6.4. Reference to other sections

- : See also sections 8 and 13.

	SAFETY DATA SHEET	Page : 4/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product

- : The product must be handled in accordance with good industrial hygiene and safety procedures.
- Only experienced and properly instructed persons should handle gases under pressure.
- Consider pressure relief device(s) in gas installations.
- Ensure the complete gas system was (or is regularly) checked for leaks before use.
- Do not smoke while handling product.
- Avoid exposure, obtain special instructions before use.
- Avoid contact with aluminium.
- Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
- Installation of a cross purge assembly between the cylinder and the regulator is recommended.
- Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service.
- Avoid suck back of water, acid and alkalis.
- Do not breathe gas.
- Avoid release of product into atmosphere.

Safe handling of the gas receptacle

- : Refer to supplier's container handling instructions.
- Do not allow backfeed into the container.
- Protect cylinders from physical damage; do not drag, roll, slide or drop.
- When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
- Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.
- If user experiences any difficulty operating valve discontinue use and contact supplier.
- Never attempt to repair or modify container valves or safety relief devices.
- Damaged valves should be reported immediately to the supplier.
- Keep container valve outlets clean and free from contaminants particularly oil and water.
- Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
- Close container valve after each use and when empty, even if still connected to equipment.
- Never attempt to transfer gases from one cylinder/container to another.
- Never use direct flame or electrical heating devices to raise the pressure of a container.
- Do not remove or deface labels provided by the supplier for the identification of the content of the container.
- Suck back of water into the container must be prevented.
- Open valve slowly to avoid pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

- : Observe all regulations and local requirements regarding storage of containers.
- Containers should not be stored in conditions likely to encourage corrosion.
- Container valve guards or caps should be in place.
- Containers should be stored in the vertical position and properly secured to prevent them from falling over.
- Stored containers should be periodically checked for general condition and leakage.
- Keep container below 50°C in a well ventilated place.
- Store containers in location free from fire risk and away from sources of heat and ignition.
- Keep away from combustible materials.

7.3. Specific end use(s)

- : None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrogen chloride

NOAL_0069

Country : DK / Language : EN

Hydrogen chloride (7647-01-0)

OEL : Occupational Exposure Limits

EU	TWA IOELV (EU) 8 h [mg/m ³]	8 mg/m ³
	TWA IOELV (EU) 8 h [ppm]	5 ppm
	STEL IOELV (EU) 15 min [mg/m ³]	15 mg/m ³
	STEL IOELV (EU) 15 min [ppm]	10 ppm
Denmark	TWA (DK) OEL 8h [mg/m ³]	7 mg/m ³
	TWA (DK) OEL 8h [ppm]	5 ppm
	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides)

Hydrogen chloride (7647-01-0)

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EU	TWA IOELV (EU) 8 h [mg/m ³]	8 mg/m ³
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Hydrogen chloride (7647-01-0)

DNEL: Derived no effect level (Workers)

Acute - local effects, inhalation	15 mg/m ³
Long-term - local effects, inhalation	8 mg/m ³

Hydrogen chloride (7647-01-0)

DNEL: Derived no effect level (Workers)

Acute - local effects, inhalation	15 mg/m ³
Long-term - local effects, inhalation	8 mg/m ³

Hydrogen chloride (7647-01-0)

PNEC: Predicted no effect concentration

Aqua (freshwater)	0.036 mg/l
Aqua (marine water)	0.036 mg/l
Aquatic, intermittent releases	0.045 mg/l
Micro-organisms in sewage treatment plant (STP)	0.036 mg/l

Hydrogen chloride (7647-01-0)

PNEC: Predicted no effect concentration

Aqua (freshwater)	0.036 mg/l
Aqua (marine water)	0.036 mg/l
Aquatic, intermittent releases	0.045 mg/l
Micro-organisms in sewage treatment plant (STP)	0.036 mg/l

8.2. Exposure controls

8.2.1. Appropriate engineering controls

- : Provide adequate general and local exhaust ventilation.
- Product to be handled in a closed system.
- Systems under pressure should be regularly checked for leakages.
- Ensure exposure is below occupational exposure limits (where available).
- Gas detectors should be used when toxic gases may be released.
- Consider the use of a work permit system e.g. for maintenance activities.


8.2.2. Individual protection measures, e.g. personal protective equipment

- : A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered:
- PPE compliant to the recommended EN/ISO standards should be selected.

• Eye/face protection

- : Wear goggles and a face shield when transfilling or breaking transfer connections.
- Standard EN 166 - Personal eye-protection - specifications.
- Provide readily accessible eye wash stations and safety showers.

• Skin protection

	SAFETY DATA SHEET	Page : 6/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

- Hand protection : Wear working gloves when handling gas containers.
Standard EN 388 - Protective gloves against mechanical risk.
Wear cold insulating gloves when transfilling or breaking transfer connections.
Standard EN 511 - Cold insulating gloves.
Wear chemically resistant protective gloves.
Standard EN 374 - Protective gloves against chemicals.
Permeation time: minimum >480min long term exposure : material / thickness Chloroprene rubber (Neoprene®) (CR) / 0.5 [mm].
Consult glove manufacturer's product information on material suitability and material thickness.
The breakthrough time of the selected gloves must be greater than the intended use period.
 - Other : Keep suitable chemically resistant protective clothing readily available for emergency use.
Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.
Wear safety shoes while handling containers.
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
 - Respiratory protection : Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.
Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.
Recommended: Filter E (yellow).
Gas filters do not protect against oxygen deficiency.
Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .
Keep self contained breathing apparatus readily available for emergency use.
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
 - Thermal hazards : None in addition to the above sections.
- 8.2.3. Environmental exposure controls**
- : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa : Gas.
- Colour : Colourless. Gives off white fumes in moist air.

Odour : Pungent.

Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.

pH value : If dissolved in water pH-value will be affected.

Molar mass : 36.5 g/mol

Melting point : -114 °C

Boiling point : -85 °C

Flash point : Not applicable for gases and gas mixtures.

Critical temperature [°C] : 51.4 °C

Evaporation rate (ether=1) : Not applicable for gases and gas mixtures.

Flammability range : Non flammable.

Vapour pressure [20°C] : 42.6 bar(a)

Vapour pressure [50°C] : 80.6 bar(a)

Relative density, gas (air=1) : 1.3

Relative density, liquid (water=1) : 1.2

Solubility in water : 720000 mg/l

Partition coefficient n-octanol/water [log Kow] : Not applicable for inorganic products.

Auto-ignition temperature : Non flammable.

Hydrogen chloride**NOAL_0069**

Country : DK / Language : EN

Decomposition point [°C] : Not applicable.
Viscosity [20°C] : No reliable data available.
Explosive Properties : Not applicable.
Oxidising Properties : Not applicable.

9.2. Other information

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity**10.1. Reactivity**

: No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

: Stable under normal conditions.

10.3. Possibility of hazardous reactions

: No reactivity hazard other than the effects described in sub-sections below.

10.4. Conditions to avoid

: Avoid moisture in installation systems.

10.5. Incompatible materials

: Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas.
With water causes rapid corrosion of some metals.
Reacts with water to form corrosive acids.
May react violently with alkalis.
Moisture.
For additional information on compatibility refer to ISO 11114.

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 : Toxic if inhaled.
Delayed fatal pulmonary oedema possible.


LC50 inhalation rat (ppm)	1405 ppm/4h
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Hydrogen chloride (7647-01-0)

LC50 inhalation rat (ppm)	1405 ppm/4h
---------------------------	-------------

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : No known effects from this product.
Germ cell mutagenicity : No known effects from this product.
Carcinogenicity : No known effects from this product.
Reproductive toxicity : No known effects from this product.
No known effects from this product.
STOT-single exposure : Severe corrosion to the respiratory tract at high concentrations.
STOT-repeated exposure : No known effects from this product.
Aspiration hazard : Not applicable for gases and gas mixtures.

SECTION 12: Ecological information**12.1. Toxicity**

	SAFETY DATA SHEET	Page : 8/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

Assessment : Classification criteria are not met.

EC50 48h - Daphnia magna [mg/l] : 4.92 mg/l

EC50 72h - Algae [mg/l] : 4.7 mg/l

LC50 96 h - Fish [mg/l] : 3.25 - 3.5

12.2. Persistence and degradability

Assessment : Not applicable for inorganic products.

12.3. Bioaccumulative potential

Assessment : No data available.

12.4. Mobility in soil

Assessment : Because of its high volatility, the product is unlikely to cause ground or water pollution.
Partition into soil is unlikely.

12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Effect on the ozone layer : None.

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact supplier if guidance is required.

Must not be discharged to atmosphere.

Gas may be scrubbed in alkaline solution under controlled conditions to avoid violent reaction.

Ensure that the emission levels from local regulations or operating permits are not exceeded.

Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.

Return unused product in original container to supplier.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.

13.2. Additional information

: External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number

UN-No. : 1050


14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : HYDROGEN CHLORIDE, ANHYDROUS

Transport by air (ICAO-TI / IATA-DGR) : Hydrogen chloride, anhydrous

Transport by sea (IMDG) : HYDROGEN CHLORIDE, ANHYDROUS

14.3. Transport hazard class(es)

	SAFETY DATA SHEET	Page : 9/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

Labelling


2.3 : Toxic gases.
8 : Corrosive substances.

Transport by road/rail (ADR/RID)

Class : 2.
Classification code : 2TC.
Hazard identification number : 268.
Tunnel Restriction : C/D - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category D and E.

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.3 (8)
Emergency Schedule (EmS) - Fire : F-C.
Emergency Schedule (EmS) - Spillage : S-U.

14.4. Packing group

Transport by road/rail (ADR/RID) : Not established.
Transport by air (ICAO-TI / IATA-DGR) : Not established.
Transport by sea (IMDG) : Not established.

14.5. Environmental hazards

Transport by road/rail (ADR/RID) : None.
Transport by air (ICAO-TI / IATA-DGR) : None.
Transport by sea (IMDG) : None.

14.6. Special precautions for user
Packing Instruction(s)


Transport by road/rail (ADR/RID) : P200.
Transport by air (ICAO-TI / IATA-DGR)
Passenger and Cargo Aircraft : Forbidden.
Cargo Aircraft only : Forbidden.
Transport by sea (IMDG) : P200.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Before transporting product containers:
- Ensure there is adequate ventilation.
- Ensure that containers are firmly secured.
- Ensure valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

: Not applicable.

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU-Regulations

	SAFETY DATA SHEET	Page : 10/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069 Country : DK / Language : EN

Restrictions on use : None.
Seveso Directive : 2012/18/EU (Seveso III) : Listed.

National regulations

National legislation : Ensure all national/local regulations are observed.

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

A CSA has been carried out.

SECTION 16: Other information


Indication of changes : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.

Abbreviations and acronyms : ATE - Acute Toxicity Estimate
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
EINECS - European Inventory of Existing Commercial Chemical Substances
CAS# - Chemical Abstract Service number
PPE - Personal Protection Equipment
LC50 - Lethal Concentration to 50 % of a test population
RMM - Risk Management Measures
PBT - Persistent, Bioaccumulative and Toxic
vPvB - Very Persistent and Very Bioaccumulative
STOT- SE : Specific Target Organ Toxicity - Single Exposure
CSA - Chemical Safety Assessment
EN - European Standard
UN - United Nations
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA - International Air Transport Association
IMDG code - International Maritime Dangerous Goods
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
WGK - Water Hazard Class

Training advice : Users of breathing apparatus must be trained.
Ensure operators understand the toxicity hazard.

Full text of H- and EUH-statements

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H280	Contains gas under pressure; may explode if heated
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage.
H331	Toxic if inhaled.

	SAFETY DATA SHEET	Page : 11/11
		Revised edition no : 3.0
		Revision date : 2020-07-15
		Supersedes : 2020-07-13
Hydrogen chloride		NOAL_0069
		Country : DK / Language : EN

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.