

# Safety Data Sheet

## HCL ANHYDROUS SALES

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### 1. Identification

#### Product identifier used on the label

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#### Recommended use of the chemical and restriction on use

Recommended use\*: polyurethane component; industrial chemicals  
Suitable for use in industrial sector: Polymers industry; chemical industry

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Chemical family: inorganic acid

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Met. Corr.	1	Corrosive to metals
Skin Corr./Irrit.	1A	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure

#### Label elements

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Pictogram:



Signal Word:  
Danger

Hazard Statement:

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

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe dust or mist.  
P264 Wash with plenty of water and soap thoroughly after handling.  
P234 Keep only in original packaging.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
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.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P406 Store in a corrosion-resistant/... container with a resistant inner liner.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
7647-01-0	>= 75.0 - <= 100.0%	hydrochloric acid
7727-37-9	>= 1.0 - <= 3.0%	nitrogen
124-38-9	>= 0.1 - <= 1.0%	carbon dioxide
630-08-0	>= 0.1 - <= 1.0%	carbon monoxide

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

##### If on skin:

Wash affected areas thoroughly with soap and water. Immediate medical attention required.

##### If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

##### If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in section 2 and/or in section 11.

*Information on: hydrochloric acid*

*Symptoms: Overexposure may cause:, choking, dyspnea, coughing*

#### Indication of any immediate medical attention and special treatment needed

##### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, carbon dioxide, foam

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
No particular hazards known.

#### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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### Further information:

Use water fog to control vapors.

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## 6. Accidental release measures

### Further accidental release measures:

Waste not normally generated in the event of a leak. Area washed down must be kept in the range of pH 6 - 9.

### Personal precautions, protective equipment and emergency procedures

Shut off source of leak only under safe conditions. Remove persons to safety.

### Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## 7. Handling and Storage

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Protect against moisture.

Protection against fire and explosion:

No special precautions necessary.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: Carbon steel (Iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4301 (V2)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Storage stability:

Storage temperature: 16 - 27 °C

Protect against moisture.

The stated storage temperature is noted for health and safety in the workplace. With regard to Quality, please refer to the product specific Technical Bulletin.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

carbon dioxide	OSHA PEL	PEL 5,000 ppm 9,000 mg/m <sup>3</sup> ; TWA value 10,000 ppm 18,000 mg/m <sup>3</sup> ; STEL value 30,000 ppm 54,000 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 5,000 ppm ; STEL value 30,000 ppm ;
carbon monoxide	OSHA PEL	PEL 50 ppm 55 mg/m <sup>3</sup> ; TWA value 35 ppm 40 mg/m <sup>3</sup> ; CLV 200 ppm 229 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 25 ppm ;

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nitrogen	ACGIH TLV	; Included in the regulation, but with no data values - See the regulation for further details ; Simple asphyxiant
hydrochloric acid	OSHA PEL ACGIH TLV	CLV 5 ppm 7 mg/m3 ; CLV 5 ppm 7 mg/m3 ; CLV 2 ppm ;

### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

#### Body protection:

Standard work clothes and shoes.

#### General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Wear protective clothing as necessary to minimize contact. Wash soiled clothing immediately.

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## 9. Physical and Chemical Properties

Form:	gas	
Odour:	pungent odour, strong	
Odour threshold:	not applicable	
Colour:	colourless	
pH value:	approx. 1 - 2	
Freezing point:	-112 °C ( 760 mmHg)	
Boiling point:	approx. -85 °C ( 760 mmHg)	
Sublimation point:	No applicable information available.	
Flammability:	not flammable	(derived from flash point)
Lower explosion limit:	not determined	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	Based on the water content the product does not ignite.	
Density:	1.1 g/cm3 ( 20 °C)	
Relative density:	No applicable information available.	
Vapour density:	not applicable	

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Partitioning coefficient n-octanol/water (log Pow):	not applicable
Self-ignition temperature:	Based on the water content the product does not ignite.
Thermal decomposition:	1,782 °C
Viscosity, dynamic:	not determined
Viscosity, kinematic:	No applicable information available.
Solubility in water:	( 20 °C) miscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

### 10. Stability and Reactivity

#### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:  
Corrosive effect on metals.

Oxidizing properties:  
not fire-propagating

#### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### Possibility of hazardous reactions

Reacts with various metals in the presence of water with formation of flammable hydrogen gas.

#### Conditions to avoid

Avoid direct contact with water. Avoid humidity.

#### Incompatible materials

alkalies

#### Hazardous decomposition products

Decomposition products:  
No hazardous decomposition products known.

Thermal decomposition:  
1,782 °C

### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

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### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: The toxicity of the product is based on its corrosivity. May cause immediate pain, inability to swallow or speak, marked thirst and epigastric pain.

#### Oral

No applicable information available.

#### Inhalation

No applicable information available.

#### Dermal

No applicable information available.

#### Irritation / corrosion

Assessment of irritating effects: Highly corrosive! Damages skin and eyes. May cause severe damage to the eyes.

#### Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated dermal uptake of the substance did not cause substance-related effects.

#### Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

#### Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

#### Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

#### Teratogenicity

Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

#### Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

### Symptoms of Exposure

The most important known symptoms and effects are described in section 2 and/or in section 11.

#### Medical conditions aggravated by overexposure

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Individuals with pre-existing diseases of the skin, asthma or other respiratory disorders may have increased susceptibility to excessive exposures.

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## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O)

Inorganic product which cannot be eliminated from water by biological purification processes.

Elimination information

Poorly biodegradable.

### Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### Mobility in soil

Assessment transport between environmental compartments

Adsorption to solid soil phase is not expected.

### Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

The product has not been tested. Do not discharge product into the environment without control.

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## 13. Disposal considerations

### Waste disposal of substance:

Do not discharge substance/product into sewer system. Incinerate or dispose of in a licensed facility.

### Container disposal:

Dispose of in accordance with national, state and local regulations.

RCRA: D002

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### 14. Transport Information

#### Land transport

USDOT

Hazard class: 2.3  
ID number: UN 1050  
Hazard label: 2.3, 8  
Proper shipping name: HYDROGEN CHLORIDE, ANHYDROUS

#### Sea transport

IMDG

Hazard class: 2.3  
ID number: UN 1050  
Hazard label: 2.3, 8  
Marine pollutant: NO  
Proper shipping name: HYDROGEN CHLORIDE, ANHYDROUS

#### Air transport

IATA/ICAO

Hazard class: 2.3  
ID number: UN 1050  
Hazard label: 2.3, 8  
Proper shipping name: HYDROGEN CHLORIDE, ANHYDROUS

#### Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Please refer to Section 15 of this MSDS for the RQ for this product.

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

##### EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
7647-01-0	hydrochloric acid

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	7647-01-0	hydrochloric acid
100 LBS	630-08-0	carbon monoxide

**Reportable Quantity for release:** 5,000 lb

#### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	124-38-9	carbon dioxide

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NJ	630-08-0	carbon monoxide
	7727-37-9	nitrogen
	7647-01-0	hydrochloric acid
	124-38-9	carbon dioxide
	7727-37-9	nitrogen
	7647-01-0	hydrochloric acid
	630-08-0	carbon monoxide

### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including CARBON MONOXIDE, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### NFPA Hazard codes:

Health: 3      Fire: 0      Reactivity: 1      Special:

### HMIS III rating

Health: 3      Flammability: 0      Physical hazard: 1

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2018/11/16

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