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SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1.	Product identifier		
Product	form	: Mixture	
Product	name	: HYDROCHLORIC ACID 0.5 MOL/L (0.5 N)	
Type of	product	: Solution	
1.2.	Relevant identified uses of the sub	ostance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
Use of the substance/mixture		: Laboratory chemicals	
1.2.2.	Uses advised against		
No additional information available.			
1.3.	Details of the supplier of the safety data sheet		
ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de			

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Remark
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1 Specific target organ toxicity (single	H318
exposure), Category 3	H335
Full text of H statements : see section 16	

#### Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

#### 2.2. Label elements

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

Hazard pictograms (CLP)

	GHS05 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: hydrochloric acid %
Hazard statements (CLP)	<ul> <li>H290 - May be corrosive to metals.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H335 – May cause respiratory irritation.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P308+P310 - IF exposed or concerned: Immediately call a POISON CENTER or doctor/physician.</li> </ul>

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#### 2.3. Other hazards

#### No additional information available.

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrochloric acid % (Note B)	(EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X	< 5	Skin Corr. 1B, H314 STOT SE 3, H335
Specific concentration limits:			
Nama	Due duet identifien	Cussifieres	n a antration limita

Name	Product identifier	Specific concentration limits
hydrochloric acid %	(EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X	( 10 = <c 100)="" 3,="" <="" h335<br="" se="" stot="">( 10 =<c 2,="" 25)="" <="" eye="" h319<br="" irrit.="">( 10 =<c 2,="" 25)="" <="" h315<br="" irrit.="" skin="">( 25 =<c 100)="" 1b,="" <="" corr.="" h314<="" skin="" td=""></c></c></c></c>

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

Full text of H-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Call a physician immediately. Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.		
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. Wash skin with plenty of water. Take off contaminated clothing. Take off immediately all contaminated clothing. Call a physician immediately. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a physician immediately.		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a physician immediately. Call a poison center or a doctor if you feel unwell.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after skin contact	: Burns.		
Symptoms/effects after eye contact	Serious damage to eyes.		
Symptoms/effects after ingestion	Burns.		
4.3. Indication of any immediate medica	Il 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.			
Unsuitable extinguishing media : Strong water jet.			
5.2. Special hazards arising from the su	bstance or mixture		
Reactivity in case of fire	: At high temperature may liberate dangerous gases.		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		

# 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.

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SECT	ON 6: Accidental release m	easures
6.1.	Personal precautions, protective	equipment and emergency procedures
General	measures	: No open flames. No smoking. Use special care to avoid static electric charges. Eliminate ever possible source of ignition. Access forbidden to unauthorised personnel. Use protective clothing.
6.1.1.	For non-emergency personnel	
Protectiv	ve equipment	: Wear suitable protective clothing.
Emerge	ncy procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.
Measure	es in case of dust release	: In case of dust production: protective goggles. Dust mask.
6.1.2.	For emergency responders	
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ncy procedures	: Avoid contact with skin and eyes. Do not touch spilled material. Evacuate unnecessary personnel. Keep away from combustible material. Keep public away from danger area. Preve from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area. Stop leak if safe to do so.
6.2.	Environmental precautions	
Avoid re	lease to the environment. Do not allo	w to enter drains or water courses.
6.3.	Methods and material for contain	nment and cleaning up
For cont	ainment	<ul> <li>Comply with the safety intructions. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> </ul>
Methods	s for cleaning up	: Take up liquid spill into absorbent material.
Other in	formation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	ner information refer to section 13.	
SECTI	ON 7: Handling and storage	)
7.1.	Precautions for safe handling	
	al hazards when processed	: Use adequate ventilation to keep vapour concentrations below applicable standard.
Precautions for safe handling		<ul> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul>
Hygiene	measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product Always wash hands after handling the product.
7.2.	Conditions for safe storage, incl	uding any incompatibilities
Technic	al measures	: Comply with applicable regulations.
Storage	conditions	: Store in corrosive resistant container with a resistant inner liner. Keep only in original contain Store locked up. Store in a well-ventilated place. Keep cool.
Incompa	atible products	: Strong bases.
ncompa	atible materials	: Metals. Extremely high or low temperatures.
Heat an	Heat and ignition sources : Do not smoke. KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.	
Informat	ion on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) bases. Keep away from food, drink and animal feeding stuffs.
Storage	area	: Avoid : Extremely high or low temperatures. Heat and ignition sources.
7.3.	Specific end use(s)	
No addi	tional information available.	

### SECTION 8: Exposure controls/personal protection

8.1. **Control parameters** E

hydrochloric acid %			
EU	Local name	Hydrogen chloride	
EU	IOELV TWA (mg/m <sup>3</sup> )	8 mg/m³	
EU	IOELV TWA (ppm)	5 ppm	
EU	IOELV STEL (mg/m <sup>3</sup> )	15 mg/m³	
EU	IOELV STEL (ppm)	10 ppm	
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hydrochloric acid .	%	
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 900 Local name	Hydrogenchlorid
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	2 ppm
Germany	TRGS 900 Limitation of exposure peaks	2(I)
Germany	TRGS 900 Remark	DFG,EU,Y
Germany	TRGS 900 Regulatory reference	TRGS900
Turkey	Local name	Hidrojen klorür
Turkey	OEL TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup>
Turkey	OEL TWA (ppm)	5 ppm
Turkey	OEL STEL (mg/m <sup>3</sup> )	15 mg/m³
Turkey	OEL STEL (ppm)	10 ppm
Turkey	Regulatory reference	12 Ağustos 2013 Tarihli ve 28733 Sayılı Resmî Gazete

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Gloves. Safety glasses.

#### Hand protection:

Protective gloves. EN 374

#### Eye protection:

Safety glasses. EN 166. Where excessive dust may result, wear goggles

#### Skin and body protection:

Wear suitable protective clothing. In case of dust production: dustproof clothing. In case of dust production: head/neck protection. Where contact with eyes or skin is likely, wear suitable protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1. Where excessive vapour may result, wear approved mask

#### Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

#### Consumer exposure controls:

Do not eat, drink or smoke during use. Always wash hands after handling the product. Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: Liquid.		
Colour	: No data available on colour.		
Odour	: No data available on odour.		
Odour threshold	: No data available		
рН	: <1 (at 20 °C)		
Relative evaporation rate (butylacetate=1)	: No data available		

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Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 - 1.18 g/ml
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available.

10.1.	Reactivity
	oduct 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
Exothe	rmic reaction on contact with : Strong bases.
10.4.	Conditions to avoid
None u	inder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials

ardous decomposition products

Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (chlorine, hydrogen chloride).

SECTION 11: Toxicological information					
11.1. Information on toxicological effects	5				
Acute toxicity (oral)	: Not classified				
Acute toxicity (dermal)	: Not classified	Not classified			
Acute toxicity (inhalation)	: Not classified				
Skin corrosion/irritation	: Causes severe skin burns and ey	ve damage.			
	pH: 0.3				
Serious eye damage/irritation	: Causes serious eye damage. pH: 0.3				
Respiratory or skin sensitisation	: Not classified				
Germ cell mutagenicity	: Not classified	Not classified			
Carcinogenicity	: Not classified				
Reproductive toxicity	: Not classified				
STOT-single exposure	: Not classified				
STOT-repeated exposure	: Not classified				
Aspiration hazard	: Not classified				
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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

#### 12.2. Persistence and degradability

hydrochloric acid %			
Persistence and degradability	Biodegradability: not applicable.		
2.3. Bioaccumulative potential			
hydrochloric acid %			
Bioaccumulative potential	Not bioaccumulative.		
12.4. Mobility in soil			
hydrochloric acid %			
Ecology - soil	No (test)data on mobility of the components available. May be harmful to plant growth, blooming and fruit formation.		
12.5. Results of PBT and vPvB assessment			
Component			
hydrochloric acid % ()	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

#### 12.6. Other adverse effects

#### No additional information available.

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Disposal must be done according to official regulations. Waste Management Regulation published in the Official Journal numbered 29314 on April 2, 2015. Regulation on Incineration of Waste Materials published in the Official Journal numbered 27721 on October 6, 2010.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
European List of Waste (LoW) code	: 06 01 02* - hydrochloric acid

### **SECTION 14: Transport information**

In accordance with A		
In accordance with F	/ IIVIDG /	

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1789	1789	1789	1789	1789
14.2. UN proper shipp		• •	·	
HYDROCHLORIC ACID	HYDROCHLORIC ACID	Hydrochloric acid	HYDROCHLORIC ACID	HYDROCHLORIC ACID
Transport document desc	ription		I	
UN 1789 HYDROCHLORIC ACID, 8, II, (E)	UN 1789 HYDROCHLORIC ACID, 8, II	UN 1789 Hydrochloric acid, 8, II	UN 1789 HYDROCHLORIC ACID, 8, II	UN 1789 HYDROCHLORIC ACID, 8, II
14.3. Transport hazar	d class(es)	·	•	
8	8	8	8	8
	8	8	8	
14.4. Packing group				
II	Ш	П	Ш	П
14.5. Environmental h	azards	-	•	-
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
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ADR IMDG	IATA ADN RID		
	No supplementary information available		
14.6. Special precautions for user			
- Overland transport			
Classification code (ADR)	: C1		
Special provisions (ADR)	: 520		
Limited quantities (ADR)	: 1		
Excepted quantities (ADR)	: E2		
Packing instructions (ADR)	: P001, IBC02		
Mixed packing provisions (ADR)	: MP15		
Portable tank and bulk container instructions (ADR)	: T8		
Portable tank and bulk container special provisions (ADR)	: TP2		
Tank code (ADR)	: L4BN		
Vehicle for tank carriage	: AT		
Transport category (ADR)	: 2		
Hazard identification number (Kemler No.)	: 80		
Orange plates	<b>80</b> <b>1789</b>		
Tuppel restriction and (ADB)	: E		
Tunnel restriction code (ADR) EAC code	: 2R		
EAC code	. 2R		
- Transport by sea			
Packing instructions (IMDG)	: P001		
IBC packing instructions (IMDG)	: IBC02		
IBC special provisions (IMDG)	: B20		
Tank instructions (IMDG)	: T8		
Tank special provisions (IMDG)	: TP2		
EmS-No. (Fire)	: F-A		
EmS-No. (Spillage)	: S-B		
Stowage category (IMDG)	: C		
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.		
- Air transport			
PCA Excepted quantities (IATA)	: E2		
PCA Limited quantities (IATA)	: Y840		
PCA limited quantity max net quantity (IATA)	: 0.5L		
PCA packing instructions (IATA)	: 851		
PCA max net quantity (IATA)	: 1L		
CAO packing instructions (IATA)	: 855		
CAO max net quantity (IATA)	: 30L		
Special provisions (IATA)	: A3		
ERG code (IATA)	: 8L		
- Inland waterway transport			
<ul> <li>Inland waterway transport</li> <li>Classification code (ADN)</li> </ul>	: C1		
Special provisions (ADN)	: 520		
Limited quantities (ADN)	: 1L		
Excepted quantities (ADN)	: E2		
Carriage permitted (ADN)	. Е2 : Т		
Equipment required (ADN) : PP, EP			
Number of blue cones/lights (ADN)	: 0		

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#### - Rail transport

Classification code (RID)	:	C1
Special provisions (RID)	:	520
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P001, IBC02
Mixed packing provisions (RID)	:	MP15
Portable tank and bulk container instructions (RID)	:	Т8
Portable tank and bulk container special provisions (RID)	:	TP2
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	2
Colis express (express parcels) (RID)	:	CE6
Hazard identification number (RID)	:	80

#### 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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
EC50	Median effective concentration	

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IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
PNEC	Predicted No-Effect Concentration
STP	Sewage treatment plant
TLM	Median Tolerance Limit

Data sources

Other information

: Classification according to Regulation (EC) No. 1272/2008 [CLP]. ECHA (European Chemicals Agency). Supplier's safety documents.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

#### Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### SDS ISOLAB (EU)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product