Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.10.2025 Version number 213.53 (replaces version 213.52) Revision: 24.10.2025

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

1.1 Product identifier

Trade name HYDROCHLORIC ACID 31%

Other trade names:

Article number: 1000409301003
UFI: XGKD-20WP-W00X-9TUG

1.2 Relevant identified uses of the substance or mixture and uses advised against
For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.
Restrictions on use:
Restrictions on use according to REGULATION (EC) No 1907/2006 ANNEX XVII apply to this product (see section 15).
Uses advised against
Any use involving aerosol formation, vapour release (>10 ppm) or associated with the risk of splashes to the eyes/skin to which workers are exposed without respiratory, eye or skin protection.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:

STOCKMEIER Chemie GmbH & Co.KG, Am Stadtholz 37, DE - 33609 Bielefeld
Tel.: +49 521 / 30 37-0, ehs-bielefeld@stockmeier.de

STOCKMEIER Fluids GmbH & Co. KG, Sanssouci 12, DE – 58802 Balve
Tel.: +49 2375 917 310, fluids@stockmeier.com

BASSERMANN Minerals GmbH & Co. KG, Rudolf-Diesel-Straße 42, DE – 68169 Mannheim
Tel.: +49 621 15 01 0, verkauf@bassermann.de

STOCKMEIER CHEMIA Sp. z o. o., ul. Obornicka 277, PL - 60-691 Poznań
Tel.: +48 61 666 10 66, zamowienia@stockmeier.pl

STOCKMEIER QUIMICA, S.L.U., Avda. del Baix Llobregat, 3- 5, ES – 08970 Sant Joan Despí (Barcelona)
Tel.: +34 93 506 91 83, tecnico-calidad@stockmeier.es

STOCKMEIER NETHERLANDS B.V., Ridderpoort 5, NL - 2984 BG Ridderkerk
Tel.: +31 180 41 5988, info@stockmeier.nl

WigaChem GmbH - Brown-Boveri-Straße 6/1/22 - AT- 2351 Wiener Neudorf
Tel. 00432236/623-40, office@wigachem.at, www.wigachem.at

KEMTAN AG, Seewenweg 6, CH – 4153 Reinach
Tel.: +41 61 711 20 20, info@kemtan.ch

STOCKMEIER CHEMICALS BELUX SA/NV, Rue de la Station 17, BE – 1300 Limal
Tel.: +32 10 421-320, info@stockmeierchemicalsbelux.com

HDS – Chemie Handels GES.M.B.H., Bauernmarkt 24, AT - 1010 Wien
Tel.: +43 15 32 0 999, office@hds-chemie.at
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www.stockmeier.com

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Informing department:
Product safety department. Tel.: 0049 / 521 / 3037-381
E-mail: ehs-bielefeld@stockmeier.de
1.4 Emergency telephone number:
This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.
Counselling Centre for Poisoning, Mainz
Tel. (+49) 61 31 / 19 240.

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms

GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:
hydrochloric acid
Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
According to the current state of knowledge, no synthetic polymer microparticles > 0.01% are contained.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of the following substances with non-hazardous additions.

Dangerous components:		
CAS: 7647-01-0 EINECS: 231-595-7 Reg.nr.: 01-2119484862-27	hydrochloric acid Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; C ≥ 10 % substance with a Community workplace exposure limit	25-50%

SVHC
This preparation does not contain any substances of very high concern (SVHC) in a concentration of ≥ 0.1 % according to Regulation (EC) 1907/2006, Article 57.
Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General advice:
Personal protection for the First Aider.
Instantly remove any clothing soiled by the product.
If unconscious, position and transport in stable lateral position.
After inhalation
Immediately inhalation of Corticosteroid-Aerosol (e.g. Dexamethason)
Supply fresh air; consult doctor in case of symptoms.
After skin contact
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.
After eye contact
Rinse immediately opened eye for several minutes under running water. Then consult doctor.
After swallowing
Rinse out mouth with water.
Fresh air supply.
Information for doctor Inhalation of vapors may cause pulmonary edema. Dexamethasone therapy.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents
Product is non-flammable. Use fire fighting measure that suit the surroundings.

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5.2 Special hazards arising from the substance or mixture
Can be released in case of fire:
Hydrogen chloride (HCl)
Leaked out product reacts with base metal under development of hydrogen gas. Evaporated product irritates eyes and respiratory tracts.
5.3 Advice for firefighters
Protective equipment:
See section 8.
Wear full protective suit with self-contained breathing apparatus.
Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered containers in the vicinity with a water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Put on protective equipment and keep unprotected persons away.
6.2 Environmental precautions:
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
In case of release of larger quantities, inform competent authorities.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Ensure adequate ventilation.
Dispose of contaminated material as waste according to point 13.
Neutralise with lime.
6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/extraction at the workplace.
Keep containers tightly sealed.
Information about protection against explosions and fires:
The product is not flammable
Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage, including any incompatibilities
Storage Store in cool, dry conditions in well sealed containers.
Requirements to be met by storerooms and containers:
Observe laws and regulations on the storage and use of substances hazardous to water.
Provide acid-resistant floor.
Product contains metal corrosive ingredients.
Store in the delivery container or in PE containers.
Information about storage in one common storage facility:
Store away from metals.
Do not store together with alkalis (caustic solutions).

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Further information about storage conditions:
Store container in a well ventilated position.
Keep container tightly sealed.
Storage class 8 B L (VCI - Konzept, 2007)
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:	
7647-01-0 hydrochloric acid	
AGW (Germany)	Long-term value: 3 mg/m³, 2 ppm 2(I);DFG, EU, Y
IOELV (EU)	Short-term value: 15 mg/m³, 10 ppm Long-term value: 8 mg/m³, 5 ppm

DNELs		
7647-01-0 hydrochloric acid		
Inhalative	DNEL (worker)	15 mg/m³ (Acute, local effects)
		8 mg/m³ (Long-term, local effects)
	DNEL (population)	15 mg/m³ (Acute, local effects)
		8 mg/m³ (Long-term, local effects)

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Appropriate engineering controls No further data; see section 7.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures
Keep away from food, beverages and fodder.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.
Breathing equipment:
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Recommended filter device for short term use:
Filter B
Combination filter E-P2
Hand protection
Check protective gloves prior to each use for their proper condition.
Protective gloves (EN 374).
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
Butyl rubber, recommended material thickness: ≥ 0,7 mm, breakthrough time: ≥ 480 min.
Nitrile rubber (NBR), recommended material thickness: ≥ 0,4 mm, breakthrough time: ≥ 480 min.
Chloroprene rubber, CR, recommended thickness of the material: ≥ 0,7 mm, penetration time: ≥ 480 min.

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Polyvinylchlorid (PVC), recommended thickness of the material: ≥ 0,7 mm, penetration time: ≥ 480 Min.
It should be noted that the practical usage of a chemical-protective glove in practice due to many influencing factors (eg temperature) may be considerably shorter than the permeation time ascertained through testing.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection Sealing saftety goggles with protection at the side
Body protection:
Acid resistant protective clothing: apron, boots (made from rubber)
Standard protective work clothing. Chemical resistant safety shoes or boots. If skin contact may occur, wear impermeable protective clothing for this solution.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	colourless-yellowish
Smell:	Pungent
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	100 °C (7732-18-5 water, distilled, conductivity or of similar purity) The product emits HCl gas during boiling until an azeotrope concentration of 20.2% HCl is reached.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Product is non-flammable nor potentially explosive
Decomposition temperature:	Not determined.
pH at 20 °C	<1
pH-value:	
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
Vapour pressure at 50 °C:	137,3 hPa
Density and/or relative density	
Density at 20 °C	1,148 g/cm³
Relative density	Not determined.

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Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not potentially explosive
Softening point/range	
Oxidising properties	No oxidizing properties
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	May be corrosive to metals.
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity see section 10.3
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials:
strong oxidising agents
Strong bases
base metals
10.6 Hazardous decomposition products:
Hydrogen chloride (HCl)
Chlorine
Hydrogen

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:		
7647-01-0 hydrochloric acid		
Dermal	LD50	>5010 mg/kg (rabbit)

Primary irritant effect:
Skin corrosion/irritation
Causes severe skin burns and eye damage.
Serious eye damage/irritation
Causes serious eye damage.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure
May cause respiratory irritation.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Ames test: Negative
Additional toxicological information:
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
no CMR effects available in according to present state of knowledge
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
7647-01-0 hydrochloric acid	
LC 50 / 96 h	3,25 mg/l (Lepomis macrochirus)
EC 50 / 48 h	4,92 mg/l (Daphnia magna)
EC 50 / 72 h (static)	4,7 mg/l (Chlorella vulgaris) (OECD 201)
EC 50 / 3 h	5-5,5 mg/l (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test))

12.2 Persistence and degradability
Inorganic product, is not removable from water by biological cleaning process
12.3 Bioaccumulative potential
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

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12.7 Other adverse effects
Additional ecological information:
General notes:
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
Do not allow to enter drainage system, surface or ground water
Water hazard class 1 (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.
Recommendation
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Waste disposal key number:
Since 1 January 1999, the waste code numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be taken from the European Waste Catalogue.
Uncleaned packagings: Disposal in accordance with official regulations.
Recommendation:
Empty containers completely and send them cleaned for reconditioning or recycling. Dispose of containers only in consultation with local authorities.
L e v e l o p m e n t : After optimal emptying, immediately return to the supplier tightly closed and without cleaning. Make sure that no foreign matter gets into the packaging!
Other containers: Empty completely and clean for reconditioning or reprocessing.

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SECTION 14: Transport information

14.1 UN number or ID number	
ADR/RID, IMDG, IATA	UN1789
14.2 UN proper shipping name	
ADR/RID	1789 HYDROCHLORIC ACID
IMDG, IATA	HYDROCHLORIC ACID
14.3 Transport hazard class(es)	
ADR/RID	
Class	8 (C1) Corrosive substances.
Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR/RID, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.

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Marine pollutant:	No
14.6 Special precautions for user **Kemler Number:** **EMS Number:** **Segregation groups** **Stowage Category**	Warning: Corrosive substances. 80 F-A,S-B Ácidos fortes C
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID **Limited quantities (LQ)** **Excepted quantities (EQ)**	 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG **Limited quantities (LQ)** **Excepted quantities (EQ)**	 1L Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID, 8, II

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms

GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:
hydrochloric acid
Hazard statements
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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/doctor.

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P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

REGULATION (EU) 2019/1148

Regulation (EC) No 273/2004 on drug precursors		
7647-01-0	hydrochloric acid	3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
7647-01-0	hydrochloric acid	3

National regulations
Information about limitation of use:
Employment restrictions concerning young persons must be observed.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
None of the ingredients is listed.

VOC (EU) 0,0 g/l
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

UFI market placements:
Germany, Bulgaria, Denmark, DKE, ESE, European Union, Finland, SFS, France, Greece, Ireland, ISE, Croatia, Latvia, FL, Lithuania, LTE, Malta, Netherland, Norway, Germany, Poland, Portugal, Romania, Sweden, Slovakia, Slovenia, Spain, Czechia, Cyprus
Relevant phrases
Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
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.

Department issuing data specification sheet: See section 1.3: Responding area
Date of previous version: 24.10.2024
Version number of previous version: 213.52

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Abbreviations and acronyms:
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
SVHC: Substance of Very High Concern
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** Data compared to the previous version altered.**

ANNEX
Exposure Scenarios:
Manufacture of substance
Use as an intermediate
Formulation and (re)packaging of substances and mixtures
for industry, trade and consumers where applicable