

Eisen(II)-sulfat-Hepta	ahydrat-Lösung 140,8 g/l in verdü	nnter Salzsäure (200 ml HCl 37 %/l)
Revision date: 28.01.2025	Product code: 33651	Page 1 of 11
SECTION 1: Identification of the	substance/mixture and of the comp	any/undertaking
<u>1.1. Product identifier</u> Eisen(II)-sulfat-Heptahydrat-L	ösung 140,8 g/l in verdünnter Salzsäure (:	200 ml HCl 37 %/l)
UFI:	F360-53HQ-600A-KUU7	
1.2. Relevant identified uses of the	substance or mixture and uses advised	<u>against</u>
	ances as such or in preparations at indust nain (administration, education, entertainm	
Uses advised against		
Do not use for private purpose	es (household).	
1.3. Details of the supplier of the sa	fety data sheet	
Company name:	AnalytiChem GmbH ACD	
Street: Place:	Stempelstraße 6 D-47167 Duisburg	
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangerou Exposure, or Accident Call CHEMTRE 1-800-424-9300 Outside USA and Ca accepted)	EC Day or Night Within USA and Canada:
Further Information		

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1	272/2008
Signal word:	Warning

Signal w	ord:
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Pictograms:



Hazard statements

H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.



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Revision	data	20 01	2025
REVISION	uale.	20.01	.2020

Product code: 33651

Page 2 of 11

Precautionary statements

P280	Wear protective gloves and eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC	C) No 1272/2008)		
7782-63-0	ferrous sulfate heptahydrate			10 - < 15 %
	231-753-5	026-003-01-4	01-2119513203-57	
	Acute Tox. 4, Skin Irrit. 2, Eye	e Irrit. 2; H302 H315 H319		
7647-01-0	Hydrochloric acid			5 - < 10 %
	231-595-7	017-002-01-X	01-2119484862-27	
	Skin Corr. 1B, STOT SE 3; H	314 H335		

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7782-63-0	231-753-5	ferrous sulfate heptahydrate	10 - < 15 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 500 mg/kg_Skin Irrit. 2; H315: >= 25 - 100		
7647-01-0	231-595-7	Hydrochloric acid	5 - < 10 %
Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100 100			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.



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Revision date: 28.01.2025

Product code: 33651

Page 3 of 11

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Irritant

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Hydrochloric gas Sulphur oxides

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Eisen(II)-sulfat-Heptahydrat-Lösung 140,8 g/l in verdünnter Salzsäure (200 ml HCl 37 %/l)

Revision date: 28.01.2025

Product code: 33651

Page 4 of 11

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff.

Keep container tightly closed.

Use personal protection equipment.

Provide adequate ventilation.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

national regulations

Further information on storage conditions

Unsuitable container/equipment material: Metal

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Revision date: 28.01.2025

Product code: 33651

Page 5 of 11

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7647-01-0	Hydrogen chloride	5	8		TWA (8 h)	
		10	15		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type Exposure route Effect Value			Value	
7782-63-0	ferrous sulfate heptahydrate			
Worker DNEL	., long-term	dermal	systemic	2,8 mg/kg bw/day
Consumer DN	IEL, long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,28 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	20 mg/kg bw/day
7647-01-0 Hydrochloric acid				
Worker DNEL, long-term		inhalation	local	8 mg/m³
Worker DNEL, acute		inhalation	local	15 mg/m³
Consumer DNEL, long-term		inhalation	local	8 mg/m ³
Consumer DNEL, acute		inhalation	local	15 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Face protection shield goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Eisen(II)-sulfat-Heptahydrat-Lösung 140,8 g/l in verdünnter Salzsäure (200 ml HCl 37 %/l)

Revision date: 28.01.2025

Product code: 33651

Page 6 of 11

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Protective clothing acid-resistant

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:		
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		not applicable
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		0
Viscosity / kinematic:		No data available
Water solubility:		easily soluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
0.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		
No data available		
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Oxidizing properties		

No data available

9.



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Revision date: 28.01.2025

Product code: 33651

Page 7 of 11

Other safety characteristics	
Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	C
Solid content:	C
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
No data available:	
Viscosity / dynamic:	No data available
Flow time:	No data available
Further Information	

Corrosive to metals

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Keep away from: Metal.

The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



Eisen(II)-sulfat-Heptahydrat-Lösung 140,8 g/l in verdünnter Salzsäure (200 ml HCl 37 %/l)

Revision date: 28.01.2025

Product code: 33651

Page 8 of 11

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
7782-63-0	ferrous sulfate heptahydrate					
	oral	LD50 mg/kg	500	Rat	Study report (2004)	OECD Guideline 423
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2004)	OECD Guideline 402

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. Serious eye damage/eye irritation: Causes serious eye irritation. slightly irritant but not relevant for classification.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

Irritant

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7647-01-0	Hydrochloric acid						
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus		

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.



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Revision date: 28.01.2025

Product code: 33651

Page 9 of 11

BCF

CAS No	Chemical name	BCF	Species	Source
7782-63-0	ferrous sulfate heptahydrate	48	Fish, Oreochromis	Indian Journal of En
			mossambicus	

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Discharge into the environment must be avoided. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

Further information

Do not empty into drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1789	
14.2. UN proper shipping name:	HYDROCHLORIC ACID	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Classification code:	C1	
Special Provisions:	520	
Limited quantity:	1 L	
Excepted quantity:	E2	
Transport category:	2	
Hazard No:	80	
Tunnel restriction code:	E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 1789	
14.2. UN proper shipping name:	HYDROCHLORIC ACID	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Classification code:	C1	



Special Provisions:520Linned quantity:1Excepted quantity:E2Marine transport (MDG)UN 178914.1. UN number or D number:UN 178914.1. UN number or D number:WDROCHLORIC ACID14.1. Stransport hazard class(es):814.1. Stransport nazard class(es):825.2Ens:22Ens:126.3CAO-TINATA-DGR)14.1. Un number or D number:UN 178914.2. UN proper shipping name:HVDROCHLORIC ACID14.3. Transport (ICAO-TINATA-DGR)H14.1. UN norper shipping name:HVDROCHLORIC ACID14.3. Transport nazard class(es):814.4. Packing group:114.1. Namber or D number:UN 178914.2. UN proper shipping name:HVDROCHLORIC ACID14.3. Transport nazard class(es):814.4. Packing instructions - Cargo:814.4. Packing instructions - Passenger:114.1. TA-packing instructions - Cargo:85514.7. Apacking instructions - Cargo:<	′ %/I) Page 10 of 11
Excepted quarity: E2 Marine transport (MDG) UN 1789 14.1.UN number or ID number: HYDROCHLORIC ACID 14.3. Transport hazard class(se): 8 34.4.2 Azking group: I Hazard label: 8 Special Provisions: - Limited quantity: 1 Excepted quarity: EZ Enfs: F2, S-B Segregation group: 1 - acids Air transport (ICAO-TI/ATA-DGR) HYDROCHLORIC ACID 14.1. Unumber or ID number: UN 1789 14.2. UN proper shipping name: HYDROCHLORIC ACID 14.2. UN proper shipping name: HYDROCHLORIC ACID 14.3. Transport (ICAO-TI/ATA-DGR) I 14.4.1 Packing group: II 14.2. UN proper shipping name: HYDROCHLORIC ACID 14.3. Transport hazard class(s): 8 5pecial Provisions: A3 A803 Limited quantity: EZ Karde quantity: EZ IAT-Apacking instructions - Passenger: 1 HAZ-Apacking instructions - Cargo: 855	
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14.1. UN number or ID number:UN 178914.2. UN proper shipping name:HYDROCHLORIC ACID14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:-Limited quantity:1Excepted quantity:1Excepted quantity:1 - acidsAir transport (ICAO-TI/IATA-DGR)Horagot (ICAO-TI/IATA-DGR)14.1. UN number or ID number:UN 178914.2. UN proper shipping name:HYDROCHLORIC ACID14.3. Transport nizard class(es):83314.4. Packing group:II14.3. UN proper shipping name:HYDROCHLORIC ACID14.4. Packing group:II14.3. UN proper shipping name:HYDROCHLORIC ACID14.4. Packing group:II14.3. UN proper shipping name:HYDROCHLORIC ACID14.4. Packing group:II14.5. Environmental class(es):8383914.4. Packing instructions - Cargo:851IATA-max. quantity - Passenger:11IATA-max. quantity - Cargo:30 L14.5. Environmental regulatory informationRestific for the substance or mixture15.1. Safety, health and environmental regulators/legislation specific for the substance or mixture16.1. Safety, health and environmental regulators/legislation specific for the substance or mixture17. Safety, health and environmental regulators/legislation specific for the substance or mixture18. Environmental heary of the subject to 2012/18/EU (SEVESO III)<	
14.2. UN proper shipping name: HYDROCHLORIC ACID 14.4. Packing group: 8 14.4. Packing group: 1 Hazard label: 8 Special Provisions: - Limited quantity: 1 Excepted quantity: E2 Erns: F-A, S-B Segregation group: 1 - acids Air transport (ICAO-TI/IATA-DGR) 1 14.1. UN number or ID number; UN 1789 14.2. Dacking group: 1 - acids Air transport (ICAO-TI/IATA-DGR) 1 14.1. UN number or ID number; UN 1789 14.2. UN proper shipping name; HYDROCHLORIC ACID 14.3. Transport hazard class(es): 8 14.1. UN number or ID number; UN 1789 14.2. UN proper shipping name; HYDROCHLORIC ACID 14.3. Transport hazard class(es): 8 14.2. UN proper shipping name; HYDROCHLORIC ACID 14.3. Transport hazard class(es): 8 14.2. Dacking instructions - Passenger: 1 Hazard label: 8 Special provisions: A3 A803 Limited quantity: Passenger: 1 L </td <td></td>	
14.3. Transport hazard class(es): 8 14.4. Packing group: II Hazard label: 8 Special Provisions: - Linitled quantity: 1 Excepted quantity: E2 EmS: F-A, S-B Segregation group: 1 - acids Air transport (ICAO-TI/IATA-DGR) Itacids 14.1. UN number or ID number: UN 1789 14.2. UN proper shipping name: HYDROCHLORIC ACID 14.3. Transport hazard class(es): 8 14.4. Packing group: I 14.3. Transport hazard class(es): 8 14.4. Packing group: II Hazard label: 8 Special Provisions: A3 A803 Limited quantity Passenger: 0.5 L Passenger LO: Y840 Excepted quantity: E2 IATA-packing instructions - Cargo: 855 IAT-max. quantity - Passenger: 1 L IATA-packing instructions - Cargo: 30 L 14.5. Environmental hazards E ENVIRONMENTALLY HAZARDOUS: No 15. Safety, health and environmental regulatory information	
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SECTION 16: Other information	
Changes This data sheet contains changes from the previous version in section(s): 2,5,6,7,8,9,12,14.	



Eisen(II)-sulfat-Heptahydrat-Lösung 140,8 g/l in verdünnter Salzsäure (200 ml HCI 37 %/l)

Revision date: 28.01.2025

Product code: 33651

Page 11 of 11

Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport 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 EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. Provide appropriate information, instructions and training to users

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)