

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 1 of 13

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Iron-X LS

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

Automotive care products

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: carpro trading ltd.
Street: 7, Lfigeneias 4th floor strovolos
Place: 1687 Nicosia (CYPRUS)
Responsible Department: +972 546 411 911

1.4. Emergency telephone number:

+972 546 411 911

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May be corrosive to metals.

Harmful if swallowed.

Causes serious eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

ammonium mercaptoacetate

Alcohols, C10-16, ethoxylated, sulfates, sodium salts

citral

(R)-p-mentha-1,8-diene, d-limonene

geraniol

Signal word:

Danger

Pictograms:**Hazard statements**

H290

May be corrosive to metals.

H302

Harmful if swallowed.

H317

May cause an allergic skin reaction.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 2 of 13

H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P501 Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

aqueous solution

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
5421-46-5	ammonium mercaptoacetate			25 - < 30 %
	226-540-9			
	Met. Corr. 1, Acute Tox. 3, Skin Sens. 1; H290 H301 H317			
68585-34-2	Alcohols, C10-16, ethoxylated, sulfates, sodium salts			5 - < 10 %
	500-223-8			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
5392-40-5	citral			< 1 %
	226-394-6	605-019-00-3		
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			< 1 %
	227-813-5	601-029-00-7		
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H400 H410			
106-24-1	geraniol			< 1 %
	203-377-1			
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			

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

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % anionic surfactants, perfumes (Citral, Limonene, Geraniol, Linalool).

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures

4.1. Description of first aid measures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 3 of 13

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. Apply cortisone spray at early stage.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂). Sulphur oxides. Nitrogen oxides (NO_x). Ammonia (NH₃)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 4 of 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: Light. UV-radiation/sunlight. heat. moisture.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 5 of 13

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: Insufficient ventilation., exceeding exposure limit values

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type : A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic
pH-Value (at 20 °C):	7,5

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	103 °C
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined
Sustaining combustion:	No data available

Explosive properties

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

Auto-ignition temperature

Gas:	not determined
Decomposition temperature:	not determined

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 6 of 13

Oxidizing properties

none

Vapour pressure: not determined
 Density: not determined
 Water solubility: not determined

Solubility in other solvents

not determined

Partition coefficient: not determined
 Viscosity / dynamic: not determined
 Viscosity / kinematic: not determined
 Flow time: not determined
 Vapour density: not determined
 Evaporation rate: not determined
 Solvent separation test: not determined
 Solvent content: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Reducing agent. Oxidizing agents. Strong acid

10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂). Sulphur oxides. Nitrogen oxides (NO_x). Ammonia (NH₃)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 344,8 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5421-46-5	ammonium mercaptoacetate				

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 7 of 13

	oral	ATE mg/kg	100			
5392-40-5	citral					
	oral	LD50 mg/kg	6800	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rat.	ECHA Dossier	
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene					
	oral	LD50 mg/kg	>2000	Rat	RTECS	
	dermal	LD50 mg/kg	>2000	Rabbit	IUCLID	
106-24-1	geraniol					
	oral	LD50 mg/kg	3600	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier	

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (ammonium mercaptoacetate; citral; (R)-p-mentha-1,8-diene, d-limonene; geraniol)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Ammonium thioglycolate:

In-vitro mutagenicity: Ames test negative. No evidence for: Carcinogenicity Developmental

toxicity/teratogenicity: NOAEL = 15 mg/kg; maternal Tox. (OECD Guideline 414) NOAEL = 75 mg/kg; delvelop.

Tox. (OECD Guideline 414)

citral:

In-vitro mutagenicity OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. Literature information: ECHA Dossier; In-vivo mutagenicity OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative. Literature information: ECHA Dossier; Carcinogenicity: Method: -; Species: Rat. Result: negative. Literature information: RESS,NB HAILEY,JR MARONPOT,RR BUCHER,JR TRAVLOS,GS, HASEMAN,JK ORZECH,DP JOHNSON,JD AND HEJTMANCIK,MR; TOXICOLOGY AND CARCINOGENESIS STUDIES OF MICROENCAPSULATED CITRAL IN RATS AND MICE; TOXICOL. SCI. 71(2):198-206, 2003

(R)-p-mentha-1,8-diene, d-limonene:

In-vitro mutagenicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies); Species: Rat; Length of test: 2 years; Result: NOAEL >= 300 <= 600 mg/kg; Literature information: ECHA Dossier

geraniol:

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) Result: negative. Literature information: ECHA Dossier. Reproductive toxicity: (dermal.) Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) Species: Rat, Result: NOEL = 300 mg/kg; Literature information: ECHA Dossier

Developmental toxicity/teratogenicity: (dermal.) Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) Species: Rat, Result: NOAEL = 300 mg/kg; Literature information: ECHA Dossier

STOT-single exposure

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 8 of 13

STOT-repeated exposure

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

(R)-p-mentha-1,8-diene, d-limonene:

Subacute oral toxicity Mouse.) NOAEL = 1650 mg/kg; Literature information: ECHA Dossier

geraniol:

Subchronic oral toxicity: Method: -, Species: Rat,

Results: NOEL >= 550 mg/kg; Literature information: ECHA Dossier

Aspiration hazard

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

Specific effects in experiment on an animal

No data available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5392-40-5	citral					
	Acute fish toxicity	LC50 4,6 mg/l	96 h	Leuciscus idus	ECHA Dossier	
	Acute algae toxicity	ErC50 103,8 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 6,8 mg/l	48 h	Daphnia magna	ECHA Dossier	
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene					
	Acute fish toxicity	LC50 0,7 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute crustacea toxicity	EC50 0,36 mg/l	48 h	Daphnia magna	ECHA Dossier	
106-24-1	geraniol					
	Acute fish toxicity	LC50 22 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 13,1 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 10,3 mg/l	48 h	Daphnia magna	ECHA Dossier	

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
5392-40-5	citral			
	EU Method C.4-D	90%	28	ECHA Dossier
	Product is biodegradable.			
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene			
	OECD 301D / EEC 92/69 annex V, C.4-E	80 %	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
106-24-1	geraniol			
	OECD Guideline 301 A (new version)	90%	3	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 9 of 13

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5392-40-5	citral	2,76
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,23
106-24-1	geraniol	2,6

BCF

CAS No	Chemical name	BCF	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	1022	QSAR	ECHA

12.4. Mobility in soil

No data available.

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. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Waste disposal number of used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1760
14.2. UN proper shipping name:	CORROSIVE LIQUID, N.O.S. (ammonium mercaptoacetate)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 10 of 13

Hazard label: 8



Classification code: C9
 Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 80
 Tunnel restriction code: E

Inland waterways transport (ADN)**14.1. UN number:** UN 1760**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.
(ammonium mercaptoacetate)**14.3. Transport hazard class(es):** 8**14.4. Packing group:** III

Hazard label: 8



Classification code: C9
 Special Provisions: 274
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)**14.1. UN number:** UN 1760**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.
(ammonium thioglycolate)**14.3. Transport hazard class(es):** 8**14.4. Packing group:** III

Hazard label: 8



Marine pollutant: NO
 Special Provisions: 223, 274
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number:** UN 1760**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.
(ammonium thioglycolate)**14.3. Transport hazard class(es):** 8**14.4. Packing group:** III

Hazard label: 8

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 11 of 13



Special Provisions:	A3 A803	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		852
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		856
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

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

not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No. (mixture): 3

National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

SECTION 16: Other information

Changes

Rev. 1.0; 21.03.2016, Initial release
Rev. 2.00; 27.12.2017, Changes in chapter: 1-16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 12 of 13

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 LOAEL: Lowest observed adverse effect level
 LOAEC: Lowest observed adverse effect concentration
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOAEL: No observed adverse effect level
 NOAEC: No observed adverse effect level
 NTP: National Toxicology Program
 N/A: not applicable
 OSHA: Occupational Safety and Health Administration
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 SARA: Superfund Amendments and Reauthorization Act
 SVHC: substance of very high concern
 TRGS Technische Regeln fuerGefahrstoffe
 TSCA: Toxic Substances Control Act
 VOC: Volatile Organic Compounds
 VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
 WGK: Wassergefaehrungsklasse

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
Acute Tox. 4; H302	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:
 Health hazards: Calculation method.
 Environmental hazards: Calculation method.
 Physical hazards: On basis of test data and / or calculated and / or estimated.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Iron-X LS

Revision date: 27.12.2017

Product code:

Page 13 of 13

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