

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Iron-X

Print date: 22.03.2016

Product code:

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

#### 1.1. Product identifier

Iron-X

#### 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

none

#### 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

Hazard Statements:

May be corrosive to metals.

Harmful if swallowed.

May cause an allergic skin reaction.

Causes serious eye damage.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

ammonium mercaptoacetate

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

piperonal

##### Signal word:

Danger

##### Pictograms:



##### Hazard statements

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280           | Wear protective gloves/protective clothing/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. |
| P310           | Immediately call a POISON CENTER/doctor.                                                                                         |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P501           | Dispose of contents/container to in accordance with official regulations.                                                        |

### 2.3. Other hazards

The substance in the mixture does 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                            |          |          |             |
| 120-57-0   | piperonal                                                       |          |          | < 1 %       |
|            | 204-409-7                                                       |          |          |             |
|            | Skin Sens. 1B; 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.

#### 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

#### 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.

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**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 drunk in little sips (dilution effect). Do NOT induce vomiting. Call a physician in any case!

**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 (CO<sub>2</sub>). 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**

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Sulphur oxides. Nitrogen oxides (NO<sub>x</sub>). Ammonia (NH<sub>3</sub>)

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

In case of fire and/or explosion do not breathe fumes.

**Additional information**

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

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

Provide adequate ventilation.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 8. )

High slip hazard because of leaking or spilled product.

**6.2. Environmental precautions**

Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers).

**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 articles and floor according to the environmental legislation.

**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**

Provide adequate ventilation.

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Wear suitable protective clothing. (See section 8.)

### Advice on protection against fire and explosion

Usual measures for fire prevention.

### Further information on handling

Avoid contact with skin, eyes and clothes.

General protection and hygiene measures: See section 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.

Keep/Store only in original container.

Unsuitable materials for Container: metal.

#### Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances.

#### 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 <sup>3</sup> | 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. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Contaminated work clothing should not be allowed out of the workplace.

#### Eye/face protection

Tightly sealed safety glasses. DIN EN 166

#### Hand protection

Pull-over gloves of rubber.

Suitable material:

Butyl rubber.

(penetration time (maximum wearing period):  $\geq 8$  h):

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

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

### 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 |

#### Test method

|                      |     |
|----------------------|-----|
| pH-Value (at 20 °C): | 7,5 |
|----------------------|-----|

### Changes in the physical state

|                                          |                   |
|------------------------------------------|-------------------|
| Melting point:                           | not determined    |
| Initial boiling point and boiling range: | 103 °C            |
| 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 |
| Decomposition temperature: | not determined |

### Oxidizing properties

none

|                        |                |
|------------------------|----------------|
| Vapour pressure:       | not determined |
| Density:               | not determined |
| Water solubility:      | not determined |
| Viscosity / dynamic:   | not determined |
| Viscosity / kinematic: | not determined |
| Flow time:             | not determined |
| Vapour density:        | not determined |

### 9.2. Other information

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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

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Sulphur oxides. Nitrogen oxides (NO<sub>x</sub>). Ammonia (NH<sub>3</sub>)

## 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       |
| 5421-46-5 | ammonium mercaptoacetate |                     |                 |              |
|           | oral                     | LD50 (35-142) mg/kg | Rat. (OECD 402) | ECHA Dossier |
|           | dermal                   | LD50 > 1430 mg/kg   | Rat. (OECD 402) | 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), (piperonal)

#### 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)

#### STOT-single exposure

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

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### 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

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No    | Chemical name            |                |           |                                |              |
|-----------|--------------------------|----------------|-----------|--------------------------------|--------------|
|           | Aquatic toxicity         | Dose           | [h]   [d] | Species                        | Source       |
| 5421-46-5 | ammonium mercaptoacetate |                |           |                                |              |
|           | Acute fish toxicity      | LC50 >100 mg/l | 96 h      | Oncorhynchus mykiss (OECD 203) | ECHA Dossier |

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

| CAS No    | Chemical name            | Log Pow        |
|-----------|--------------------------|----------------|
| 5421-46-5 | ammonium mercaptoacetate | -2,99 (pH = 7) |

### 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  
Classified as 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  
Classified as hazardous waste.

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### 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  
Classified as 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  
 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

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

**Air transport (ICAO)**

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| <b>14.1. UN number:</b>                  | UN 1760                                              |
| <b>14.2. UN proper shipping name:</b>    | CORROSIVE LIQUID, N.O.S.<br>(ammonium thioglycolate) |
| <b>14.3. Transport hazard class(es):</b> | 8                                                    |
| <b>14.4. Packing group:</b>              | III                                                  |
| Hazard label:                            | 8                                                    |



|                                        |         |
|----------------------------------------|---------|
| 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**

No information available.

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

No information available.

**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: 3

**National regulatory information**

|                          |                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Employment restrictions: | Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Water contaminating class (D): 3 - highly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Changes

Rev. 1.0; 25.06.2013, Initial release

Rev. 1.1; 21.03.2016, Changes in chapter: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 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

International Carriage of Dangerous Goods by Road)

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

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: Concerning the International Transport of Dangerous Goods by Rail)

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 für Gefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### Relevant H and EUH statements (number and full text)

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.

### 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

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processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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