

## Safety Data Sheet

according to UK REACH Regulation

### GYEON Q<sup>2</sup>M Iron

Revision date: 05.12.2023

Product code: GM0050

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

### 1.1. Product identifier

GYEON Q<sup>2</sup>M Iron

UFI: NXY7-S6HN-Y00Y-RFTY

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Vehicle cleaning product - designed for removal of metallic contamination.  
Enthusiasts and professional use (End consumer)

#### Uses advised against

Any non-intended use.

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Company name: Gyeon Technology  
Street: 1405-538, 212, Gasan digital 1-ro  
Place: Geumcheon-gu, Seoul, Korea  
Telephone: +82-10-4339-3599  
Contact person: Robert Gyeon  
E-mail: sales@gyeon.co

#### Supplier

Company name: Gyeon UK Ltd  
Street: Commercial Quay, 84 Commercial Stree  
Place: GB-EH6 6LX Edinburgh  
E-mail: hello@gyeonquartz.uk  
Contact person: Richard Cooper Telephone: +44 (0)7984 056790

### 1.4. Emergency telephone number:

National Poisons Information Service - 03448920111. 'For healthcare professionals only'.

### Further Information

Safety Data Sheet according to UK-REACH Regulation

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Acute Tox. 4; H302  
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

#### Hazard components for labelling

ammonium mercaptoacetate  
sodium lauryl ether sulfate

Signal word: Warning

Pictograms:



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#### Hazard statements

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.

#### 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.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Relevant ingredients

| CAS No    | Chemical name  |          |          | Quantity    |
|-----------|--|----------|----------|-------------|
|           | EC No  | Index No | REACH No |             |
|           | Classification (GB CLP Regulation)                       |          |          |             |
| 5421-46-5 | ammonium mercaptoacetate                                 |          |          | 25 - < 30 % |
|           | 226-540-9  |          |          |             |
|           | Met. Corr. 1, Acute Tox. 3, Skin Sens. 1; H290 H301 H317 |          |          |             |
| 9004-82-4 | sodium lauryl ether sulfate                              |          |          | 1 - < 3 %   |
|           | 933-296-3  |          |          |             |
|           | Acute Tox. 4, Eye Irrit. 2; H302 H319                    |          |          |             |

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             |                             |             |
| 5421-46-5 | 226-540-9  | ammonium mercaptoacetate    | 25 - < 30 % |
|           | oral: ATE = 100 mg/kg                                |                             |             |
| 9004-82-4 | 933-296-3  | sodium lauryl ether sulfate | 1 - < 3 %   |
|           | dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg |                             |             |

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

< 5 % anionic surfactants, perfumes.

##### Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK 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).

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#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, 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**

Harmful if swallowed.

May cause an allergic skin reaction.

#### **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**

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Sulfur oxides.

#### **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**

##### **General advice**

Safe handling: see section 7

##### **For non-emergency personnel**

Wear personal protection equipment (refer to section 8).

##### **For emergency responders**

No special measures are necessary.

#### **6.2. Environmental precautions**

Discharge into the environment must be avoided.

#### **6.3. Methods and material for containment and cleaning up**

##### **For containment**

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.

##### **For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

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#### 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**

Wear suitable protective clothing. See section 8.

#### **Advice on protection against fire and explosion**

Usual measures for fire prevention.

#### **Advice on general occupational hygiene**

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

#### **Further information on handling**

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.

#### **Hints on joint storage**

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: frost. UV-radiation/sunlight. heat. Humidity

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Additional advice on limit values**

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2. Exposure controls



#### **Appropriate engineering controls**

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

#### **Individual protection measures, such as personal protective equipment**

##### **Eye/face protection**

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

##### **Hand protection**

Wear suitable gloves.  
 Suitable material:

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

Breakthrough time  $\geq$  8 h

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

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.

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

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.

#### Respiratory protection

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

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

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

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                |                |
|---|----------------|----------------|
| Physical state:   | liquid         |                |
| Colour:   | colourless     |                |
| Odour:  | like cherry    |                |
| Odour threshold:  | not determined |                |
| Melting point/freezing point:                             |                | not determined |
| Boiling point or initial boiling point and boiling range: |                | 100 °C         |
| Flammability:   |                | not determined |
| Lower explosion limits:                                   |                | not determined |
| Upper explosion limits:                                   |                | not determined |
| Flash point:  |                | >100 °C        |
| Auto-ignition temperature:                                |                | not determined |
| Decomposition temperature:                                |                | not relevant   |
| pH-Value:   |                | 8              |
| Viscosity / kinematic:                                    |                | not determined |
| Water solubility:   |                | not determined |

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Solubility in other solvents

not determined

Dissolution rate:

not relevant

Partition coefficient n-octanol/water:

not relevant

Dispersion stability:

not relevant

Vapour pressure:

not determined

Density:

not determined

Bulk density:

not relevant

Relative vapour density:

not determined

Particle characteristics:

not relevant

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

none

Sustaining combustion:

Not sustaining combustion

Self-ignition temperature

Solid:

not relevant

Gas:

not relevant

Oxidizing properties

none

#### Other safety characteristics

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Sublimation point:

not relevant

Softening point:

not relevant

Pour point:

not relevant

Viscosity / dynamic:

not determined

Flow time:

not determined

#### Further Information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Ammonia. Nitrogen oxides (NO<sub>x</sub>).

Sulfur oxides.

## SECTION 11: Toxicological information

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#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Toxicokinetics, metabolism and distribution

No data available.

##### Acute toxicity

Harmful if swallowed.

##### ATEmix calculated

ATE (oral) 395,3 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No    | Chemical name               |               |         |        |              |
|-----------|-----------------------------|---------------|---------|--------|--------------|
|           | Exposure route              | Dose          | Species | Source | Method       |
| 5421-46-5 | ammonium mercaptoacetate    |               |         |        |              |
|           | oral                        | ATE<br>mg/kg  | 100     |        |              |
| 9004-82-4 | sodium lauryl ether sulfate |               |         |        |              |
|           | oral                        | LD50<br>mg/kg | >2000   | Rat    | ECHA Dossier |
|           | dermal                      | LD50<br>mg/kg | >2000   | Rat    | ECHA Dossier |

##### Irritation and corrosivity

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

##### Sensitising effects

May cause an allergic skin reaction. (ammonium mercaptoacetate)

##### Carcinogenic/mutagenic/toxic effects for reproduction

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

ammonium mercaptoacetate:

In-vitro mutagenicity:

Method:

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

-EU Method B.17 (Mutagenicity - In Vitro Mammalian Cell Gene Mutation Test)

Result: = negative.

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414

Species: Rat

Result: NOAEL = 75 mg/kg

Literature information REACH dossier

##### 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

No data available.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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#### Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

### 12.2. Persistence and degradability

The product has not been tested.

| CAS No    | Chemical name                                       |       |    |              |
|-----------|---|-------|----|--------------|
|           | Method  | Value | d  | Source       |
|           | Evaluation  |       |    |              |
| 9004-82-4 | sodium lauryl ether sulfate                         |       |    |              |
|           | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C             | 100%  | 28 | ECHA Dossier |
|           | Readily biodegradable (according to OECD criteria). |       |    |              |

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### 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 UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### 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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### 12.7. 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

#### Disposal recommendations

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

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, 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 (EWC) European Waste Catalogue:

#### List of Wastes Code - 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

#### List of Wastes Code - 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

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#### List of Wastes Code - 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)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### Marine transport (IMDG)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### Air transport (ICAO-TI/IATA-DGR)

|  |  |
|--|--|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | No dangerous good in sense of this transport regulation. |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Refer to section 6 - 8

#### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Directive 2010/75/EU on industrial emissions: not determined

Directive 2004/42/EC on VOC in paints and varnishes: not determined

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### Additional information

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The mixture is classified as hazardous according to GHS (GB CLP).

UK REACH Appendix XVII, No (mixture): 3

Regulation (EC) No. 648/2004 (Detergents regulation)

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

#### 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; 31.07.2015, Initial release

Rev. 1,1; 01.12.2015, Changes in chapter: 2, 3, 11, 12, 15, 16.

Rev. 1,2; 01.09.2016, Changes in chapter: 1, 16.

Rev. 2,0; 03.09.2018, Changes in chapter: 1- 16

Rev. 3,0; 16.05.2019, Changes in chapter: 1- 16

Rev. 3,1; 14.05.2020, Revision Changes in chapter: 1- 16

Rev. 3,2; 11.02.2021, Revision

Rev. 4,0; 04.01.2023, Revision Changes in chapter: 1- 16

Rev. 5,0; 18.10.2023, Revision

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#### Abbreviations and acronyms

Met. Corr: Corrosive to metals  
 Acute Tox: Acute toxicity  
 Eye Irrit: Eye irritation  
 Skin Sens: Skin sensitisation  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AGW: Arbeitsplatzgrenzwert  
 CAS: Chemical Abstracts Service  
 CLP: Classification, Labelling and Packaging of substances and mixtures  
 DNEL: Derived No Effect Level  
 d: day(s)  
 EINECS: European INventory of Existing Commercial chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 ECHA: European Chemicals Agency  
 EWC: European Waste Catalogue  
 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  
 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)  
 h: hour  
 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 concentration  
 NLP: No-Longer Polymers  
 N/A: not applicable  
 OECD: Organisation for Economic Co-operation and Development  
 PNEC: predicted no effect concentration  
 PBT: Persistent bioaccumulative toxic  
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
 REACH: Registration, Evaluation, Authorisation of Chemicals  
 SVHC: substance of very high concern  
 TRGS: Technische Regeln für Gefahrstoffe  
 UN: United Nations  
 VOC: Volatile Organic Compounds

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Acute Tox. 4; H302 | Calculation method       |
| Skin Sens. 1; H317 | Calculation method       |

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

H290 May be corrosive to metals.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our

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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.

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