# Safety Data Sheet **GHS VERSION**

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7/19/2019

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

#### 1.1. product identifiers

Identification of the substance or mixture

HARDENER X

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

Relevant identified uses

Curing agent, acidic. Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

**ULANO® CORPORATION** 

110 Third Avenue Brooklyn, NY 11217

Telephone: +1 718-237-4700 Telefax: +1 718-802-1119

E-mail info@ulano.com

Information contact:

E-mail (competent person): P. Drago

dragop@ulano.com

1.4. Emergency telephone number

Emergency telephone:

1-800-424-9300 / +1-703-527-3887 (CHEMTREC)

**NFPA** 

**USA** 

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to GHS

This mixture is classified as hazardous according to GHS

Skin Corr. 1B / H314

Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### 2.2. Label elements

The product is classified and labelled according to GHS.

# Labelling according to GHS

# Hazard pictograms





Warning

# **Hazard statements**

Causes severe skin burns and eye damage.

#### Precautionary statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

contains:

not applicable

3 0

0

# **HMIS-CODE**

Health Fire Reactivity

Personal Protection Η

Classification code:

0 = minimal / 1 = low / 2 = moderate / 3 = strong / 4 = extreme

# 2.3. Other hazards

# **SECTION 3: Composition / information on ingredients**

#### 3.2. Mixtures

Product description / chemical characterization

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Description

Mixture of components, as listed below, with nonhazardous constituents

Hazardous ingredients

Classification according to GHS

EC No.

CAS No.

Chemical name

Wt %

INDEX No.

classification: // Remark

1 - 5

231-595-7

017-002-01-X

Hydrochloric acid

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Take off immediately all contaminated clothing.

#### After eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove contact lenses.

#### After ingestion

Seek medical advice immediately. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

#### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide Water mist Foam

# Extinguishing media which must not be used for safety reasons:

strong water jet

# 5.2. Special hazards arising from the substance or mixture

Gases/vapours, toxic Heating causes rise in pressure with risk of bursting.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

#### Additional information

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire.Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

#### SECTION 7: Handling and storage

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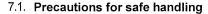
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#### Advices on safe handling

Avoid contact with eyes and skin.Do not inhale vapours or mist. Avoid: aerosol or mist formationDo not mix with other chemicals.

Do not eat, drink or smoke when using this product.

Personal protection equipment: refer to section 8.

Follow the legal protection and safety regulations.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

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

#### Requirements for storage rooms and vessels

Always keep in containers that correspond to the material of the original container.

#### Hints on joint storage

Do not store together with: Alkali (lye)

#### Further information

VCI-storage class, see Chapter 15

#### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limit values

not applicable

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. Do not breathe vapour/aerosol.

#### Personal protection equipment

#### Respiratory protection

When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### Hand protection

Wear chemical resistant protective gloves.

#### Eve protection

Wear closed protection glasses.

#### **Protective clothing**

Protective clothing acid-resistant

#### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **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

Appearance:

Physical state:

Liauid

Colour:

refer to label

Odour:

characteristic

pH at 20 °C::

1

Initial boiling point and boiling range:

100 °C

Flash point:

not applicable

Vapour pressure at 20 °C::

not applicable

Relative density:

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Density at 20 °C::

1.03 g/cm<sup>3</sup>

Solubility(ies):

Water solubility (g/L) at 20 °C::

very soluble

Auto-ignition temperature:

not applicable

Viscosity at °C::

n.a.

Decomposition temperature (°C):

0

9.2. Other information

Solid content (%):

0.01 Wt %

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity

#### 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

#### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous decomposition products

# SECTION 11: Toxicological information

Classification for mixtures and used evaluation method according to GHS

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### **Acute toxicity**

Toxicological data are not available.

#### skin corrosion/irritation; Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

#### Respiratory or skin sensitisation

Toxicological data are not available.

#### Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

Toxicological data are not available.

#### Practical experience/human evidence

Other observations:

Causes severe skin burns and eye damage.

#### Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### Remark

There is no information available on the preparation itself .

# **SECTION 12: Ecological information**

Classification for mixtures and used evaluation method according to GHSDo not store at public landfills.

### Practical experience/human evidence

Other observations:

Causes severe skin burns and eye damage.

#### 12.1 Toxicity

No information available.



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#### Remark

There is no information available on the preparation itself.

# Long-term Ecotoxicity

Toxicological data are not available.

#### 12.2 Persistence and degradability

Toxicological data are not available.

#### 12.3 Bioaccumulative potential

Toxicological data are not available.

#### Bioconcentration factor (BCF)

Toxicological data are not available.

#### 12.4 Mobility in soil

Toxicological data are not available.

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

#### 12.5 Other adverse effects

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Appropriate disposal / Product

Recommendation

#### packaging

### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

#### **SECTION 14: Transport information**

14.1 UN number

UN 3264

14.2 UN proper shipping name

Land transport (ADR / RID / DOT):

Corrosive liquid, acidic, inorganic, n.o.s.

(Hydrochloric Acid)

Sea transport (IMDG):

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Hydrochloric Acid)

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

Corrosive liquid, acidic, inorganic, n.o.s.

(Hydrochloric Acid)

14.3 Transport hazard class(es)

8

14.4 Packing group

П

14.5 Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

#### 14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

# **Further information**

#### Land transport (ADR/RID)

tunnel restriction code Special provisions:

# Sea transport (IMDG)

EmS-No.

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Segregation group Packaging >30 I

IMDG Code segregation group 1 - acids

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

# **SECTION 15: Regulatory information**

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

Observe in addition any national regulations!

calculated with mixing rule

Substance/product listed in the following inventories:

USA: TSCA - YES

#### **SECTION 16: Other information**

#### **Further information**

Classification for mixtures and used evaluation method according to GHS

The information supplied on this safety data sheet is correct to the best of our knowledge. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.