

(According to ANSI Z400.1-2004)

PRODUCT NAME:

HARDENER-X

Date Prepared: July 29, 2009

1. IDENTIFICATION OF PRODUCT AND COMPANY

Previous Issue: September 8, 2005

Product Name: Company:	HARDENER-X ULANO® CORPORATION 110 Third Avenue
Phone:	Brooklyn, NY 11217 718-237-4700
Fax: Emergency contact:	718-802-1119 1-800-424-9300 (CHEMTREC)

MSDS prepared by: Fred Widman

Recommended use: Manufacture of textile screens and screenprinting stencils

2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is classified as Corrosive liquid according to 29CFR 1910-1200.

Appearance / Odor: liquid / lightly pungent

Potential Health Effects: Eyes

Corrosive! This product causes burns and corneal damage

Potential Health Effects: Skin

Corrosive! Contact with skin can cause irritation or burns. Symptoms include itching and pain.

Potential Health Effects: Ingestion

Swallowing can cause burns of the mouth, throat and stomach. Symptoms may include nausea, diarrhea and vomiting.

Potential Health Effects: Inhalation

Signs of respiratory tract irritation (such as nasal discharge and difficulty breathing) may occur after exposure to aerosol or high vapor concentrations.

- C Corrosive
- 34 Causes burns

37 Irritating to respiratory system

Target Organs: skin, eyes, and mucous membranes

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Potential Environmental Effects: See Section 12 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials Hazardous components:

EINECS-No CAS-No.	Name R-phrases	Hazard	%content	
231-595-7 7647-01-0	Hydrochloric Acid 34-37	С	0.5-10.0%	
Additional inf	ormation:	40		

For full text of risk phrases see Section 16.

4. FIRST AID MEASURES

After skin contact:

Clean thoroughly with soap and water.

After eye contact:

Remove contact lenses; keep eyelids open, rinse under running water for at least 10 minutes. If irritation continues, seek medical advice.

After ingestion:

Do not induce vomiting - seek medical advice. If unconscious, do not administer anything orally. Place in stable side position and seek medical advice. If breathing is irregular or has stopped, apply artificial respiration.

After Inhalation:

If symptoms are experienced, remove from source of contamination or move victim to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice.

Note to Physicians: Treat as exposure to corrosives

5. FIRE-FIGHTING MEASURES

Flammable: no	Means of extinction: treat surrounding fire
	Unsuitable extinguishing media: Hard water stream
Flash point: n.a	Upper flammable limit: n.a
Explosion data impact: n.a	a Lower flammable limit: n.a
Explosion data static: n.a	
Hazardous combustion pr	oducts: typical carbon oxygen compounds.
Fire fighters should wear \$	SCBA for fighting fires in enclosed areas.
Autoignition temp: n.a	

6. ACCIDENTAL RELEASE MEASURES

Do not empty large quantities directly into drains. Collect with liquid absorbing material and proceed according to local waste disposal regulations.

7. HANDLING AND STORAGE

Keep container tightly closed and in a cool and well ventilated place. Ensure adequate ventilation. Avoid contact with skin and eyes. PRODUCT NAME:

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Occupationa CAS #	al exposure limit: Name	OSHA TWA	ACGIH TWA
7647-01-0	Hydrochloric Acid	5 ppm Ceiling	2 ppm Ceiling
Other- none Personal Pr Gloves- reco Respirator- r Eye- protect Protective for	t required st- recommended rotection ommended not required ive goggles recommend ootwear- not required lothing- protective apron		

Form:	liquid
Color:	red
Odor:	mild
Flash point:	n.a
Ignition temperature:	n.a
Density:	1.03 g/cm ³
Viscosity:	liquid
Explosion limits:	n.a
Boiling point:	~212°F (100° C)
Vapour density:	>1(air=1)
Vapour pressure:	not known
Freezing point:	not known
pH:	~1
Coefficient of water/ oi	I distribution: not known

Volatile Organic Compounds: less than 0.1%

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see Section 7). Store as a corrosive liquid

INCOMPATABILITY: Strong oxidizers, acids

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

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COMPONENT	CAS#	LD ₅₀	
Hydrochloric Acid	7647-01-0	900 mg/kg, oral, rabbit	3124 ppm / 1H, inhalation rat

General information:

Effects of acute exposure: Repeated or prolonged contact causes burns of the skin mucous membranes and particularly the eyes. Irritancy of product- Corrosive Skin sensitization- Corrosive Respiratory sensitization- Corrosive Carcinogenicity- no IARC- no ACGIH - no Reproductive toxicity - none known Teratogenicity - none known Embryotoxicity - none known Mutagenicity - none known Name of synergistic products/effects- none known

12. ECOLOGICAL INFORMATION

Do not empty large quantities into drains or release into open water. Do not store at public waste disposal sites.

13. WASTE DISPOSAL INFORMATION

Dispose of as a corrosive aqueous waste Empty container: scrap recycling or re-conditioning Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID/DOT/IATA: Packaging group:	Class: 8 UN: 1760 Corrosive liquid, nos (hydrochloric acid) III
Fackaging group.	111
IMDG:	Class: 8 UN: 1760 Corrosive liquid, nos (hydrochloric acid)
Marine pollutant: Packaging group:	no III

15. REGULATORY INFORMATION

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of information required by the CPR, and it is classified as a code E hazardous material.

Labeling C R-phrases: 34 37	Causes burns Irritating to resp	biratory s	ystem			
S-phrases: 24/25 26 37/39	Avoid contact wit	t with ey /ice	es, rin	se imn	-	with plenty of water and
	eling: gulation for Germa tion class: 2	iny:				
				Cana	ıda	
Ingredient		TSCA	EC	DSL	NDSL	
Hydrochloric Acid (7	647-01-0)	Yes	Yes	Yes	No	
	-SARA 30	2- SAR	A 313 -	-RCRA	- CERCLA	- TSCA
Ingredient	RQ TI	PQ List	t	RQ	261.33	8(d)

						- ()
Hydrochloric Acid	5,000	500	yes	5,000	5,000	No

16. OTHER INFORMATION

HMIS: Health 3, Flammability 0, Reactivity 0

Text of risk phrases mentioned in Section 2:

С	Corrosive
-	

- 34 Causes burns
- 37 Irritating to respiratory system

For further information please refer to our technical information sheet. Data in this MSDS correspond with our current level of knowledge, but do not represent any assurance of product properties. The user personally is responsible for compliance with all legal requirements.

DISCLAIMER OF RESPONSIBILITY:

This document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this MSDS was obtained from sources which we believe are reliable.

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