



## SAFETY DATA SHEET UNI-PRIME 7781 HARDENER

According to Regulation (EC) No 1907/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                      UNI-PRIME 7781 HARDENER

SUPPLIER                              Garland Company UK Ltd,  
Unit 5, Glevum Works,  
Upton Street,  
Gloucester GL1 4LA  
UK  
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APPLICATION                         Paint

EMERGENCY TELEPHONE            01452 330646  
09:00 - 17:00 Monday to Friday

### 2 HAZARDS IDENTIFICATION

Harmful by inhalation. Causes burns. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45)        Xn;R20. C;R34. R43. R52/53.

#### ENVIRONMENT

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### HUMAN HEALTH

Causes burns. Harmful by inhalation. May cause sensitisation by skin contact.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
3-AMINOPROPYLTRIEHOXYSILANE	213-048-4	919-30-2	1-5%	C;R34 Xn;R22
ACETIC ACID ...%	200-580-7	64-19-7	1-5%	R10 C;R35
POLYAMINE POLYMER			10-30%	Xn;R20. Xi;R36. R43.
POLYOXYPROPYLENEDIAMINE		9046-10-0	5-10%	C;R34.
TALC	238-877-9	14807-96-6	10-30%	Xn;R20. Xi;R37.
TETRAETHYLENEPENTAMINE	203-986-2	112-57-2	5-10%	C;R34 Xn;R21/22 R43 N;R51/53

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Vapours may irritate throat and respiratory system and cause coughing. Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

#### INGESTION

May cause internal injury. Immediately rinse mouth and drink plenty of water (200-300 ml). Do not induce vomiting. Get medical attention immediately! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

#### SKIN CONTACT

Causes burns. Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Contact physician if irritation continues or sores develop.

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## EYE CONTACT

Causes burns. Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Use: Alcohol resistant foam. Carbon dioxide (CO2). Water spray.

### SPECIAL FIRE FIGHTING PROCEDURES

Keep run-off water out of sewers and water sources. Dike for water control.

### SPECIFIC HAZARDS

Fire creates: Formaldehyde. Ammonia Carbon monoxide (CO). Carbon dioxide (CO2). Chlorine. Nitrous gases (NOx). Silicon dioxide.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

### ENVIRONMENTAL PRECAUTIONS

Avoid discharge to the aquatic environment.

### SPILL CLEAN UP METHODS

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Wash hands after handling.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Keep in original container.

### STORAGE CLASS

Corrosive storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
TALC	WEL		1 mg/m3			

WEL = Workplace Exposure Limit.

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash station.

### ENGINEERING MEASURES

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### HAND PROTECTION

Use protective gloves made of: Resistant material. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

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## EYE PROTECTION

Wear approved safety goggles.

## OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

## HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Amber		
ODOUR	Ammonia		
SOLUBILITY	Completely soluble in water		
MELTING POINT (°C)	<= 0°C	RELATIVE DENSITY	1.12 - 1.15
pH-VALUE, CONC. SOLUTION	10	VOLATILE ORGANIC COMPOUND (VOC)	4.47 g/l

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### MATERIALS TO AVOID

Acids. Moist air. Strong oxidising substances. Bases. Water.

### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Carbon monoxide (CO).

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

Harmful by inhalation.

### INGESTION

Causes burns. May cause discomfort if swallowed. May cause stomach pain or vomiting.

### SKIN CONTACT

Causes burns. May cause sensitisation by skin contact.

### EYE CONTACT

Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

## 14 TRANSPORT INFORMATION

## UNI-PRIME 7781 HARDENER



UK ROAD CLASS	8		
PROPER SHIPPING NAME	AMINES, LIQUID, CORROSIVE, N.O.S (POLYOXYPROPYLENEDIAMINE, TETRAETHYLENEMPENTAMINE)		
UN NO. ROAD	2735	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(E)
HAZARD No. (ADR)	80	ADR LABEL NO.	8
HAZCHEM CODE	2X	CEFIC TEC(R) NO.	80GC7-II+III
RID CLASS NO.	8	RID PACK GROUP	III
UN NO. SEA	2735	IMDG CLASS	8
IMDG PACK GR.	III	EMS	F-A, S-B
UN NO. AIR	2735	AIR CLASS	8
AIR PACK GR.	III		

## 15 REGULATORY INFORMATION

### LABELLING



Corrosive



Harmful

### CONTAINS

POLYAMINE POLYMER  
POLYOXYPROPYLENEDIAMINE  
TETRAETHYLENEMPENTAMINE

### RISK PHRASES

R20	Harmful by inhalation.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SAFETY PHRASES

S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

### EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

### APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

### GUIDANCE NOTES

Workplace Exposure Limits EH40.

**16 OTHER INFORMATION**

## REVISION COMMENTS

This is first issue.

REVISION DATE                      07-2010

## RISK PHRASES IN FULL

R34	Causes burns.
R35	Causes severe burns.
R10	Flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.