

SAFETY DATA SHEET
CHOCKFAST GREY HARDENER

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

PRODUCT NAME	CHOCKFAST GREY HARDENER
PRODUCT NO.	Y0004
APPLICATION	Hardener
SUPPLIER	Philadelphia Resins SHANNON INDUSTRIAL ESTATE CO. CLARE IRELAND. T: 353 (0)61 471299 F: 353 (0)61 471285 admin@itwsnn.ie
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2 HAZARDS IDENTIFICATION

Harmful in contact with skin. Causes burns. May cause sensitisation by skin contact. Possible risk of impaired fertility. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R21. Rep 3;R62. C;R34. R43. R52/53.

HUMAN HEALTH

Corrosive. Prolonged contact causes serious eye and tissue damage.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
4,4'-ISOPROPYLIDENEDIPHENOL	201-245-8	80-05-7	1-10%	Repr. Cat. 3;R62 R43 Xi;R37,R41
DIETHYLENETRIAMINE	203-865-4	111-40-0	10-30%	C;R34 Xn;R21/22 R43
TRIETHYLENETETRAMINE	203-950-6	112-24-3	60-100%	C;R34 Xn;R21 R43 R52/53

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

Do not breathe vapour/spray. Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

INHALATION

Move the exposed person to fresh air at once. Contact physician if discomfort continues.

INGESTION

Do not induce vomiting. Drink plenty of water. Get medical attention.

SKIN CONTACT

Remove affected person from source of contamination. Wash skin thoroughly with soap and water for several minutes. Contact physician if irritation persists.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

CHOCKFAST GREY HARDENER

EXTINGUISHING MEDIA

Fire can be extinguished using: Water spray, carbon dioxide, dry powder or polar resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES

Keep up-wind to avoid fumes. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.

SPECIFIC HAZARDS

Avoid breathing fire vapours.

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

Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Dam and absorb spillages with sand, earth or other non-combustible material. Transfer to a container for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Mechanical ventilation or local exhaust ventilation is required. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS

Store at room temperature. Store in tightly closed original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIETHYLENETRIAMINE	WEL	1 ppm(Sk)	4.3 mg/m3(Sk)			

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash, quick drench.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves made of: Rubber or plastic.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

CHOCKFAST GREY HARDENER**HYGIENE MEASURES**

Keep away from food, drink and animal feeding stuffs. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving work place.

SKIN PROTECTION

Protection suit must be worn.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Dark Grey		
ODOUR	Amine.		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	118	RELATIVE DENSITY	0.98 20 °C
VAPOUR PRESSURE	<0.05 mmHg 20	pH-VALUE, CONC. SOLUTION	11.1 @ 20 °C
FLASH POINT (°C)	93		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Avoid contact with oxidising agents. Nitrous acid and other nitrosating agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire or high temperatures create: Nitrous gases (NOx). Oxides of: Carbon monoxide (CO). Carbon dioxide (CO₂). Vapours/gases/fumes of: Ammonia or amines.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 2, 000 mg/kg (oral rat)

GENERAL INFORMATION

Possible risk of impaired fertility.

INGESTION

Harmful if swallowed. Corrosive. Even small amounts may cause serious damage.

SKIN CONTACT

Causes burns. Corrosive. Prolonged contact causes serious tissue damage. May cause sensitisation by skin contact. Harmful in contact with skin. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

EYE CONTACT

Causes burns. Risk of serious damage to eyes.

HEALTH WARNINGS

This substance is corrosive. This chemical may cause skin/eye irritation and burns (corrosive).

ROUTE OF ENTRY

Inhalation. Ingestion. Skin absorption.

TARGET ORGANS

Prolonged or repeated exposure may cause: May cause damage to the liver and kidneys. Respiratory system, lungs. Central nervous system.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Avoid releasing to the environment. The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

CHOCKFAST GREY HARDENER

DEGRADABILITY

Do not discharge into drains, water courses or onto the ground.

WATER HAZARD CLASSIFICATION

WGK 2

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

08 04 99

14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (TRIETHYLENETETRAMINE, DIETHYLENETRIAMINE)		
UN NO. ROAD	3267	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	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	II	UN NO. SEA	3267
IMDG CLASS	8	IMDG PAGE NO.	8
IMDG PACK GR.	II	EMS	F-A, S-B
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	3267	AIR CLASS	8
AIR PACK GR.	II		

15 REGULATORY INFORMATION

LABELLING



Corrosive



Harmful

CONTAINS

4,4'-ISOPROPYLIDENEDIPHENOL
DIETHYLENETRIAMINE
TRIETHYLENETETRAMINE

RISK PHRASES

R21	Harmful in contact with skin.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.

CHOCKFAST GREY HARDENER

R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES	
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).

16 OTHER INFORMATION

REVISION DATE 16/03/2009
 REV. NO./REPL. SDS GENERATED 3
 DATE 25.01.2005

RISK PHRASES IN FULL

R21 Harmful in contact with skin.
 R21/22 Harmful in contact with skin and if swallowed.
 R34 Causes burns.
 R37 Irritating to respiratory system.
 R41 Risk of serious damage to eyes.
 R43 May cause sensitisation by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R62 Possible risk of impaired fertility.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.