

## MATERIAL SAFETY DATA SHEET

### NORCROS EPOXY FILLER/HARDENER (PART B)

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNdertaking

1.1 PRODUCT IDENTIFIER: Norcros Super Epoxy Grout – Filler/Hardener component

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended use: PC1 Epoxy resin grout for ceramic wall and floor tiling

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

NORCROS ADHESIVES  
Harewood Street  
Tunstall  
Stoke on Trent  
Staffordshire  
ST6 5JZ  
Tel: 01782 524 140  
Fax: 01782 524141  
E-mail: [technical@norcros-adhesives.com](mailto:technical@norcros-adhesives.com)

1.4 EMERGENCY TELEPHONE NUMBER: 44 (0) 1782 524 140

#### SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION UNDER CHIP

Xi Irritant

R36/38	Irritating to eyes and skin
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

CLASSIFICATION UNDER CLP

H315	Skin corrosion/irritation, Category 2
H317	Skin sensitisation
H318	Serious eye damage/Eye irritation, Category 1,
H412	Harmful to aquatic life with long lasting effects

2.2 LABEL ELEMENTS:

CONTAINS:

1.3 – Cyclohexanedimethanamine  
Triethylololonetetranamine

LABEL ELEMENTS UNDER CHIP

HAZARD SYMBOLS: Irritant; Corrosive



RISK PHRASES:

R34

Causes burns

R36/38

Irritating to eyes and skin

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:

S-2

Keep out of reach of children

S-25

Avoid contact with eyes

S-26

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

S-28

After contact with skin, wash immediately with plenty of water

S-36/37/39

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)

S-46

If swallowed seek medical advice immediately and show the container or label

S-56

Dispose of this material and its container to hazardous or special waste collection point

P5

Contains epoxy constituents. See information supplied by the manufacturer

LABEL ELEMENTS UNDER CLP

HAZARD STATEMENTS: H302 Harmful if swallowed  
 H314 Causes severe skin burns and eye damage  
 H317 May cause an allergic skin reaction  
 H318 Serious eye damage/Eye irritation, Category 1,  
 H412 Harmful to aquatic life with long lasting effects

SIGNAL WORDS: Danger

HAZARD PICTOGRAMS



PRECAUTIONARY STATEMENTS

PREVENTION: P102 Keep out of reach of children  
 P262 Do not get in eyes, on skin, or on clothing  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P301/P310 If swallowed immediately call a poison centre or or doctor/physician  
 P309/P311 If exposed or if you feel unwell: Call a Poison Centre or doctor/physician  
 P305/P313/P338/P351 If in eyes remove contact lenses if present and safe to do so. Rinse cautiously for several minutes. Get medical advice/attention  
 P303/P361/P353 If on skin (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P501 Dispose of contents/container to hazardous or special waste collection point  
 EUH205 Contains epoxy constituents. May produce an allergic reaction

2.3 OTHER HAZARDS

No information

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 MIXTURES:

1.3 – CYCLOHEXANEDIMETHANAMINE		10-30%
CAS-No: 2579-20-6		EC No: 219-941-5
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Acute Tox. 4 – H302	Xn; R22	
Skin Corr. 1B – H314	C; R34	
Skin Sens. 1 – H317	R43	
TRIETHYLENETETRAMINE		5-10%
CAS-No. 112-24-3		EC No:203-950-6
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Acute Tox. 4 – H312	Xn; R21	
Skin Corr. 1B – H314	C; R34	
Skin Sens 1 – H317	R43; R52/53	
Aquatic Chronic 3 – H412		
ETHANEDIOL		<1%
CAS-No: 107-21-1		EC No:203-473-3
Classification (EC 1272/2208)	Classification (67/548/EEC)	
Acute Tox. 4 – H302	Xn; R22	

The full text for all R-Phrases and Hazard Statements are displayed in Section 2.

### SECTION 4: FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

##### GENERAL INFORMATION

Chemical burns must be treated by a physician. Seek medical attention for all burns, regardless how minor they may seem.

**AFTER INHALATION:** Move affected personnel into fresh air at once. Do not induce vomiting. Keep the affected person warm and at rest. Seek immediate medical attention.

**AFTER INGESTION:** Immediately rinse mouth thoroughly  
Do not induce vomiting  
Provide rest, warmth and fresh air  
Seek immediate medical attention

**AFTER CONTACT WITH SKIN** Remove affected person from source of contamination  
Wash off promptly and flush contaminated skin with water  
Promptly remove clothing if soaked through and flush with water.  
Seek medical attention if symptoms occur after washing

**AFTER CONTACT WITH EYES** Remove affected person from source of contamination  
Make sure that any contact lenses are removed before rinsing opened eye using plenty of clean water for at least 15 minutes  
Continue to rinse for at least 15 minutes and seek medical attention.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

##### General Information

The severity of the symptoms described will vary dependent of the concentration and length of Exposure

**INHALATION** Irritation of nose, throat and airway

**INGESTION:** May cause chemical burns in mouth and throat

**SKIN CONTACT:** May cause serious chemical burns to the skin

**EYE CONTACT:** Irritation of eyes and mucous membranes

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No recommendation given, but first aid may still be required in cases of accidental exposure, inhalation or ingestion of this chemical. If in doubt **SEEK MEDICAL ATTENTION PROMPTLY**

### **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed

Specific hazards

Fire creates: Vapours/gases/fumes of: Carbon Monoxide (CO), Ammonia or Amines, Carbon Dioxide (CO<sub>2</sub>), Nitrous gases (NO<sub>x</sub>)

#### 5.3 ADVICE FOR FIRE FIGHTERS

Special Fire Fighting Procedures

Beware, risk of formation of toxic and corrosive gases. Use supplied air respirator if product is involved in a fire.

Protective Equipment for Fire Fighters:

Use air-supplied respirator, gloves and protective goggles

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**6.1.1 For non-emergency personnel**

Wear suitable protective clothing (including respiratory protection) during removal of spillages in a confined area – refer to section 8.

**6.1.2 For emergency personnel**

Wear suitable protective clothing (including respiratory protection) during removal of spillages in a confined area – refer to section 8.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Avoid material entering drains or water courses or onto the ground.

**6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Wear necessary protective equipment. Stop leak if possible without risk. Absorb in vermiculite, dry

sand or earth and place into containers. Shovel into dry containers.

Cover and move the containers. Flush the area with water. Do not let washing down water contaminate ponds or waterways

**6.4 REFERENCE TO OTHER SECTIONS**

This product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12 as well.

**SECTION 7: HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING**

Ensure good ventilation

Avoid spilling

Avoid skin and eye contact

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Store in tightly closed original containers

Store in dry, well ventilated areas at temperatures of 5 – 32°C

Protect from frost and damp conditions

Storage Class: Corrosive storage

**7.3 SPECIFIC END USE(S)**

The identified uses for this product are detailed in Section 1.2

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 CONTOL PARAMETERS**

INGREDIENT NAME	STD	TWA – 8 Hours	STEL – 15 Min.	
Ethanediol			40	104

## 8.2 EXPOSURE CONTROLS

ENGINEERING MEASURES:	Provide adequate ventilation including local extraction to ensure that the defined exposure limit is not exceeded. Provide eyewash station
RESPIRATORY EQUIPMENT:	If ventilation is insufficient, suitable respiratory protection must be provided
HAND PROTECTION:	Use protective gloves made of: Nitrile, Viton rubber (fluor rubber), Polyvinylidene chloride/ Polyethylene (PVD/PE)
OTHER PROTECTION:	Wear appropriate clothing to prevent skin contamination or freezing. Provide eyewash station
HYGIENE MEASURES:	DO NOT SMOKE IN WORK AREA. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance:	Amber coloured paste
(b) Odour:	Amine
(c) Odour threshold:	Not determined
(d) pH:	Not applicable
(e) Melting point/freezing point:	Not applicable
(f) Initial boiling point and boiling range:	Not applicable
(g) Flash point:	Not applicable
(h) Evaporation rate:	Not applicable
(i) Flammability (solid/ gas):	Not applicable
(j) Upper/lower flammability or explosive limits:	Not applicable
(k) Vapour pressure:	Not applicable
(l) Vapour density:	Not applicable
(m) Relative density:	Not determined
(n) Solubility(ies):	Not determined
(o) Partition co-efficient; n-octanol/water:	Not determined
(p) Auto-ignition temperature:	Not determined
(q) Decomposition temperature:	Not determined
(r) Viscosity:	Not applicable
(s) Explosive properties:	Not determined
(t) Oxidising properties:	Not determined

### 9.2 OTHER INFORMATION

Not applicable

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1 REACTIVITY**

Reaction with Organic peroxides/ hydroperoxides

### **10.2 CHEMICAL STABILITY**

Stable under normal temperature conditions and recommended use

### **10.3 POSSIBILITY OF HAZARDOUS REACTION**

Not determined

Hazardous Polymerisation

Unknown

### **10.4 CONDITIONS TO AVOID**

Avoid excessive heat for prolonged periods of time

### **10.5 INCOMPATIBLE MATERIALS**

Strong acids, strong oxidising substances, Alkali metals, Organic peroxides/ hydroperoxides

### **10.6 HAZARDOUS DECOMPOSITION PRODUCTS**

During fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) are formed

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

**SKIN CONTACT:**

May cause sensitisation by skin contact.

Causes burns

**EYE CONTACT:**

Extreme irritation of eyes and mucous membranes, including burning and tearing

Causes burns

Route of entry: skin or eye contact



**SECTION 12: ECOLOGICAL INFORMATION****12.1 TOXICITY****ECOTOXICITY**

Dangerous for the environment if discharged into water courses. The product contains a substance which is harmful to aquatic organisms which may cause long term adverse effects in the aquatic environment.

**12.2 PERSISTENCE AND DEGRADABILITY**

No data available

**12.3 BIOACCUMULATIVE POTENTIAL**

May accumulate in soil and water systems

**12.4 MOBILITY IN SOIL**

This product is insoluble in water and will sediment in water systems

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT**

No data available

**12.6 OTHER ADVERSE EFFECTS**

No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

In accordance with local authority regulations

**13.1 WASTE TREATMENT METHODS**

Dispose of waste and residues in accordance with local authority regulations

## SECTION 14 TRANSPORT INFORMATION

### 14.1 UN NUMBER

UN No. (ADR/RID/AND)	2735
UN No. (IMDG)	2735
UN NO (ICAO)	2735

### 14.2 UN PROPER SHIPPING NAME

Amines, Liquid, Corrosive, N.O.S (Isophoronediamine, 2-Piperazin-1-Ylethylamine)

### 14.3 TRANSPORT HAZARD CLASS(ES)

ADR/RID/AND Class:	8
ADR/RID/AND Class:	Class 8: Corrosive substances
ADR Label No.	8
IMDG Class:	8
ICAO Class/Division:	8

Transport Labels:



### 14.4 PACKING GROUP

ADR/RID/AND Packing Group:	III
IMDG Packing Group:	III
ICAO Packing Group:	111

### 14.5 ENVIRONMENTAL HAZARDS

Environmentally Hazardous Substances Marine Pollutant



### 14.6 SPECIAL PRECAUTIONS FOR USER

EMS	F-A, S-B
Emergency Action Code:	2X
Hazard No. (ADR)	80
Tunnel Restriction Code:	(E)

### 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

## **SECTION 15: REGULATORY INFORMATION**

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE

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UK Regulatory References

The Control of Substance Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716)

Approved Code of Practice

Control of Substances Hazardous to Health

Approved code of practice

Classification and Labelling of Substances and Preparations Dangerous for Supply

Guidance Notes

Workplace exposure Limits EH40

Introduction to Local Exhaust Ventilation HS(G)37

CHIP for everyone HSG (108)

EU Legislation

Dangerous Substance Directive 67/548/EEC

National Regulations

Health and Safety at Work Act (As Amended) 1974

15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## **SECTION 16: OTHER INFORMATION**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

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Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Transport of Dangerous Goods by Road

RID: Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level (REACH)

PNEC: Predicted No Effect Concentration (REACH) LC50: Lethal Concentration 50 percent

LD50: Lethal Dose: Lethal Dose 50%

Information Sources

Dangerous Properties of Industrial Materials Report, N.Sax et al.

**LEGAL DISCLAIMER:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

## NORCROS EPOXY RESIN (PART A)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER: Norcros Super Epoxy Grout – Resin component

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended use: PC1 Epoxy resin grout for ceramic wall and floor tiling

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

NORCROS ADHESIVES  
Harewood Street  
Tunstall  
Stoke on Trent  
Staffordshire  
ST6 5JZ  
Tel: 01782 524 140  
Fax: 01782 524141  
E-mail: technical@norcros-adhesives.com

1.4 EMERGENCY TELEPHONE NUMBER: 44 (0) 1782 524 140

### SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLASSIFICATION UNDER CHIP

Xi Irritant

R36/38 Irritating to eyes and skin

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

CLASSIFICATION UNDER CLP

H315 Skin corrosion/irritation, Category 2

H317 Skin sensitisation

H318 Serious eye damage/Eye irritation, Category 1,

H412 Harmful to aquatic life with long lasting effects

**2.2 LABEL ELEMENTS:**
**CONTAINS:**

Epoxy Resin (Number average MW <= 700)  
 BPF Epoxy Resin MW <700  
 Oxirane, Mono [(C12-14-Alkyloxy) Methyl] Dervis  
 Bisphenol F, Epichlorohydrin Resin

**LABEL ELEMENTS UNDER CHIP**
**HAZARD SYMBOLS: Irritant**

**RISK PHRASES:**

R36/38	Irritating to eyes and skin
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:**

S-2	Keep out of reach of children
S-25	Avoid contact with eyes
S-26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice
S-28	After contact with skin, wash immediately with plenty of water
S-36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S-46	If swallowed seek medical advice immediately and show the container or label
S-56	Dispose of this material and its container to hazardous or special waste collection point
P5	Contains epoxy constituents. See information supplied by the manufacturer

**LABEL ELEMENTS UNDER CLP**

HAZARD STATEMENTS: H302 Harmful if swallowed  
 H317 May cause an allergic skin reaction  
 H318 Serious eye damage/Eye irritation, Category 1,  
 H412 Harmful to aquatic life with long lasting effects

SIGNAL WORDS: Danger

**HAZARD PICTOGRAMS**

**PRECAUTIONARY STATEMENTS**

PREVENTION: P102 Keep out of reach of children  
 P262 Do not get in eyes, on skin, or on clothing  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P301/P310 If swallowed immediately call a poison centre or or doctor/physician  
 P305/P313/P338/P351 If in eyes remove contact lenses if present and safe to do so. Rinse cautiously for several minutes. Get medical advice/attention  
 P303/P361/P353 If on skin (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P501 Dispose of contents/container to hazardous or special waste collection point  
 EUH205 Contains epoxy constituents. May produce an allergic reaction

**2.3 OTHER HAZARDS**

No information

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 MIXTURES:

EPOXY RESIN (Number average MX <= 700) <span style="float: right;">10-30%</span>	
CAS-No: 25068-38-6	EC No: 500-033-5
Classification (EC 1272/2008) Skin Irrit. 2-H315 Eye Irrit. 2-H319 Skin Sens. 1-H317 Aquatic Chronic 2: H411	Classification (67/548/EEC) R43 Xi: R36-38 N: R51/53
OXIRANE, MONO [(C12-14 – ALKYL OXY) METHYL] DERIVS <span style="float: right;">1-5%</span>	
CAS-No. 68609-97-2	EC No:
Classification (EC 1272/2008) Skin Irrit: 2-H315 Skin Sens. 1-H317	Classification (67/548/EEC) R43 Xi: R38
BPF EPOXY RESIN MW <700 <span style="float: right;">1-5%</span>	
CAS-No: 55492-52-9	EC No:
Classification (EC 1272/2008) Not classified	Classification (67/548/EEC) Xi: R36/38 N: R51/53 R43
BISPHENOL F. EPICHLOROHYDRIN RESIN <span style="float: right;">1-5%</span>	
Classification (EC 1272/2008) Not classified	Classification (67/548/EEC) Xi: R36/38 N: R51/53 R43

The full text for all R-Phrases and Hazard Statements are displayed in Section 2.

### SECTION 4: FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

**AFTER INHALATION:** Move affected personnel into fresh air

**AFTER INGESTION:** Immediately rinse mouth and drink plenty of water  
If person becomes uncomfortable or if ingested in large amounts (50-100ml for an adult person) take to hospital with these instructions

**AFTER CONTACT WITH SKIN:** Wash off promptly and flush contaminated skin with water  
Promptly remove clothing if soaked through and flush with water.  
Seek medical attention if discomfort continues

**AFTER CONTACT WITH EYES:** Make sure that any contact lenses are removed before rinsing opened eye using plenty of clean water for at least 15 minutes.  
Seek medical attention if discomfort persists.

#### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

##### General Information

The severity of the symptoms described will vary dependent of the concentration and length of Exposure

INHALATION No specific symptoms noted

INGESTION: May cause stomach pain or vomiting

SKIN CONTACT: Prolonged skin contact may cause redness and irritation.

EYE CONTACT: May cause temporary eye irritation

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No recommendation given, but first aid may still be required in cases of accidental exposure, inhalation or ingestion of this chemical. If in doubt SEEK MEDICAL ATTENTION PROMPTLY

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or Vapours

Fire creates: Carbon monoxide (CO), Carbon Dioxide (CO<sub>2</sub>)

#### 5.3 ADVICE FOR FIRE FIGHTERS

Special Fire Fighting Procedures

Containers close to fire should be removed or cooled with water

Wear full protective clothing. Use air supplied respirator, gloves and protective goggles.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

##### 6.1.1 For non-emergency personnel

Wear suitable protective clothing (including respiratory protection) during removal of spillages in a confined area – refer to section 8.

##### 6.1.2 For emergency personnel

Wear suitable protective clothing (including respiratory protection) during removal of spillages in a confined area – refer to section 8.

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Avoid material entering drains or water courses or onto the ground.

#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb in vermiculite, dry sand or earth and place into containers. Shovel into dry containers.

Cover and move the containers. Flush the area with water.

#### 6.4 REFERENCE TO OTHER SECTIONS

Sections 8 and 13 should be referred to. See section 11 for additional information on health hazards



**SECTION 7: HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING**

Ensure good ventilation  
 Avoid skin and eye contact

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Store in tightly closed original containers  
 Store in dry, well ventilated areas at temperatures of 5 – 32°C  
 Protect from frost and damp conditions

**7.3 SPECIFIC END USE(S)**

The identified uses for this product are detailed in Section 1.2

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS**

INGREDIENT NAME	CAS No	STD	LT EXP – 8 HRS
Calcium Hydroxide	1305-62-0	WEL	5mg/m <sup>3</sup>
Ordinary Portland Cement	65997-415-1	WEL	10mg/m <sup>3</sup> total inhalable dust 4mg/m <sup>3</sup> respirable dust

(WEL = Workplace Exposure Limit)

**8.2 EXPOSURE CONTROLS**

- ENGINEERING MEASURES:** Provide adequate ventilation including local extraction to ensure that the defined exposure limit is not exceeded.  
 Provide eyewash station
- RESPIRATORY EQUIPMENT:** If ventilation is insufficient, suitable respiratory protection must be provided
- HAND PROTECTION:** The most suitable gloves must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material
- OTHER PROTECTION:** Wear splash-proof eye goggles to prevent any possibility of eye contact.  
 Wear suitable protective clothing as protection against splashing or contamination
- HYGIENE MEASURES:** DO NOT SMOKE IN WORK AREA. Wash at the end of each work shift and before eating, smoking and using the toilet.  
 Wash promptly if skin becomes wet or contaminated.  
 Promptly remove any clothing that becomes contaminated  
 Use appropriate skin cream to prevent drying of skin.  
 When using do not eat, drink or smoke

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance:	Viscous liquid
(b) Odour:	No odour
(c) Odour threshold:	Not determined
(d) pH:	Not applicable
(e) Melting point/freezing point:	Not applicable
(f) Initial boiling point and boiling range:	Not applicable
(g) Flash point:	Not applicable
(h) Evaporation rate:	Not applicable
(i) Flammability (solid/ gas):	Not applicable
(j) Upper/lower flammability or explosive limits:	Not applicable
(k) Vapour pressure:	Not applicable
(l) Vapour density:	Not applicable
(m) Relative density:	Not determined
(n) Solubility(ies):	Not determined
(o) Partition co-efficient; n-octanol/water:	Not determined
(p) Auto-ignition temperature:	Not determined
(q) Decomposition temperature:	Not determined
(r) Viscosity:	Not applicable
(s) Explosive properties:	Not determined
(t) Oxidising properties:	Not determined

### 9.2 OTHER INFORMATION

Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Reaction with Acids, Alkalis, Amines

### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions and recommended use

### 10.3 POSSIBILITY OF HAZARDOUS REACTION

See section 10.1

### 10.4 CONDITIONS TO AVOID

Reacts with alkalis and amines generating excessive heat

### 10.5 INCOMPATIBLE MATERIALS

Strong acids, strong alkalis, Amines

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours

**SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

SKIN CONTACT: Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT: Irritation of eyes and mucous membranes

**SECTION 12: ECOLOGICAL INFORMATION**

## 12.1 TOXICITY

## 12.2 PERSISTENCE AND DEGRADABILITY

No data available

## 12.3 BIOACCUMULATIVE POTENTIAL

No data available

## 12.4 MOBILITY IN SOIL

## 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

This product does not contain any PBT or vPvB substances

## 12.6 OTHER ADVERSE EFFECTS

No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

In accordance with local authority regulations

## 13.1 WASTE TREATMENT METHODS

**SECTION 14 TRANSPORT INFORMATION**

## 14.1 UN NUMBER

UN No. (ADR/RID/AND) 3082

UN No. (IMDG) 3082

UN NO (ICAO) 3082

## 14.2 UN PROPER SHIPPING NAME

Environmentally Hazardous Substance, Liquid, N.O.S

## 14.3 TRANSPORT HAZARD CLASS(ES)

ADR/RID/AND Class: 9

ADR/RID/AND Class: Class 9: Miscellaneous dangerous substances and articles

ADR Label No. 9

IMDG Class: 9

ICAO Class/Division: 9

Transport Labels:



#### 14.4 PACKING GROUP

ADR/RID/AND Packing Group: III  
IMDG Packing Group: III  
ICAO Packing Group: 111

#### 14.5 ENVIRONMENTAL HAZARDS

Environmentally Hazardous Substances Marine Pollutant



#### 14.6 SPECIAL PRECAUTIONS FOR USER

EMS F-A, S-F  
Emergency Action Code: •3Z  
Hazard No. (ADR) 90  
Tunnel Restriction Code: (E)

#### 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

### SECTION 15: REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE

The Control of Substance Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716)

Approved Code of Practice

Safety Data Sheets for Substances and Preparations

Guidance Notes

Workplace Exposure Limits EH40

EU Legislation

Dangerous Substance Directive 67/548/EEC

National Regulations

Workplace Exposure Limits 2005 (EH40)

## 15.2 CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### **SECTION 16: OTHER INFORMATION**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

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Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Transport of Dangerous Goods by Road

RID: Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level (REACH)

PNEC: Predicted No Effect Concentration (REACH) LC50: Lethal Concentration 50 percent

LD50: Lethal Dose: Lethal Dose 50%

Information Sources

Dangerous Properties of Industrial Materials Report, N.Sax et al.

**LEGAL DISCLAIMER:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.