



**SAFETY DATA SHEET**  
**FLOORPACK - HARDENER**

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

PRODUCT NAME FLOORPACK - HARDENER  
PRODUCT NO. 132/Q265/1 - HARDENER  
APPLICATION HARDENER FOR TWO COMPONENT Crack and hole filler  
SUPPLIER COO-VAR  
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CONTACT PERSON as above

**2 HAZARDS IDENTIFICATION**

Irritating to eyes and skin. May cause sensitisation by skin contact.

CLASSIFICATION Xi;R36/38. R43.

PHYSICAL AND CHEMICAL HAZARDS

When handled correctly, undamaged units represent no danger.

HUMAN HEALTH

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
BENZYL ALCOHOL	202-859-9	100-51-6	5-10%	Xn;R20/22
ISOPHORONEDIAMINE	220-666-8	2855-13-2	5-10%	C;R34 Xn;R21/22 R43 R52/53

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

**4 FIRST-AID MEASURES**

GENERAL INFORMATION

Get medical attention if any discomfort continues.

INHALATION

Move into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Place unconscious person on the side in the recovery position and ensure breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Consult a physician for specific advice.

INGESTION

Get medical attention immediately! Do not induce vomiting. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

SKIN CONTACT

Important to remove the substance from the skin immediately. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Continue to rinse for at least 15 minutes. Consult a physician for specific advice. Remove contaminated clothing and shoes. Contaminated leather should be discarded. Wash contaminated clothing before reuse.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials. Fire can be extinguished using: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Non flammable at room temperature, but will burn.

#### SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Water spray should be used to cool containers.

#### SPECIFIC HAZARDS

By heating and fire, toxic vapours/gases may be formed. Fire creates: Acrid smoke/fumes of : Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>).

#### 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

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear butyl rubber protective clothing and boots. Avoid contact with skin and eyes. Wear protective gloves and, in case of splashes, goggles/face shield too. Exclude non-essential personnel. Open enclosed spaces to outside atmosphere.

#### ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

#### SPILL CLEAN UP METHODS

Wear necessary protective equipment. Clean-up personnel should use respiratory and/or liquid contact protection. Recover the product and place in a suitable container for reuse. Place in metal containers for recovery or disposal. or Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Large Spillages Recover spilled material with a vacuum truck.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Persons susceptible for allergic reactions should not handle this product. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols or mists containing these resins through engineering controls, such as exhaust ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Wear goggles and face shield. DO NOT GET IN EYES. Other individuals working in the vicinity of the product where exposure can occur should be fitted with chemical splash goggles. Contaminated clothing should be properly laundered or disposed of in a manner that will not cause additional exposure. Workers should be strongly encouraged to follow good hygiene practices, such as thorough washing of hands, arms, neck and face. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

#### STORAGE PRECAUTIONS

Keep containers tightly closed. Keep upright. Protect from light, including direct sunrays. Store in closed original container at temperatures between 5°C and 25°C. Store separated from: Oxidising material. Acids. Alkalies.

#### STORAGE CLASS

Miscellaneous hazardous material storage.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PROTECTIVE EQUIPMENT



#### PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

#### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

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### RESPIRATORY EQUIPMENT

When spraying use suitable air-supplied respirator.

### HAND PROTECTION

Protective gloves and goggles must be used if there is a risk of direct contact or splash. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact. Wear full-face visor or shield. Other individuals working in the vicinity of the product where exposure could occur should also be fitted with chemical splash goggles. Workers should not contact their eyes or skin with hands contaminated with the material.

### OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

### HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

### PERSONAL PROTECTION

Unprotected persons should be kept away from treated areas.

### SKIN PROTECTION

Protection suit must be worn.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Granular Coloured paste		
COLOUR	Black Grey		
ODOUR	Sweetish		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	>150 760 mm Hg	RELATIVE DENSITY	2.22 @ 25 C
VAPOUR PRESSURE	<0.1 mbar @ 20 C	VOLATILE BY VOL. (%)	0
VISCOSITY	400 mPas @ 25 C	AUTO IGNITION TEMPERATURE (°C)	>200
VOLATILE ORGANIC COMPOUND (VOC)	0 g/litre		

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Not relevant.

### HAZARDOUS POLYMERISATION

Will not occur

### MATERIALS TO AVOID

Strong oxidising substances. Organic peroxides/hydroperoxides. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

### HAZARDOUS DECOMPOSITION PRODUCTS

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

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

Not relevant at normal room temperatures. When heated, corrosive vapours may be formed. Vapour from this chemical can be hazardous when inhaled.

### INGESTION

Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.

### SKIN CONTACT

Harmful in contact with skin. Causes burns.

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### EYE CONTACT

Causes burns. Risk of serious damage to eyes.

### HEALTH WARNINGS

Preparation contains an epoxy resin, which may cause sensitisation and development of allergy. CNS depressant. May cause sensitisation by skin contact.

### ROUTE OF ENTRY

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

### MEDICAL SYMPTOMS

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

### MEDICAL CONSIDERATIONS

Skin disorders and allergies. Splash in eye requires examination by eye specialist.

### SPECIFIC EFFECTS

Over exposure, especially during spraying without the necessary precautions, entails risk of concentration- dependant irritating effects on eyes, nose, throat and respiratory tract.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

The product contains a substance which may cause long term adverse effects in the environment.

### MOBILITY

Not determined

### BIOACCUMULATION

No data available on bioaccumulation.

### DEGRADABILITY

No data available.

### ACUTE FISH TOXICITY

Toxicity to bacteria, algae and higher marine organisms not tested. COD: Not determined

## 13 DISPOSAL CONSIDERATIONS

### GENERAL INFORMATION

DO NOT reuse containers containing residual product without commercial cleaning. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. May be incinerated in a suitable facility provided local regulations are observed.

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Incinerate with provision for removal of effluent gases by scrubber.

### WASTE CLASS

Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging). Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste.

## 14 TRANSPORT INFORMATION



UK ROAD CLASS

8 Corrosive substance

PROPER SHIPPING NAME

Amines, Liquid, Corrosive NOS\*(polyamines, contains isophoronediamine)

SEA TRANSPORT NOTES

Do not release into the environment.

## FLOORPACK - HARDENER

UN NO. ROAD	2735	UK ROAD PACK GR.	III
ADR CLASS NO.	8, 66c	ADR SUB CLASS	Amines, Liquid, Corrosive NOS*(polyamines, contains isophoronediamine)
HAZARD NO. (ADR)	80 Corrosive or slightly corrosive substance.	UN NO. SEA	2735
IMDG CLASS	Class 8	IMDG PACK GR.	III
UN NO. AIR	2735	AIR CLASS	Class 8
AIR SUB CLASS	Amines, Liquid, Corrosive NOS*(polyamines, contains isophoronediamine)	AIR PACK GR.	III

### 15 REGULATORY INFORMATION

#### LABELLING



Irritant

#### CONTAINS

ISOPHORONEDIAMINE

#### RISK PHRASES

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

#### SAFETY PHRASES

S2 Keep out of the reach of children  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 Wear suitable gloves.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S56 Dispose of this material and its container to hazardous or special waste collection point.  
S64 If swallowed, rinse mouth with water (only if the person is conscious).  
P5 Contains epoxy constituents. See information supplied by the manufacturer.

#### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988. Health and Safety at Work Act 1974.

#### ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Rivers (Prevention of Pollution) Act 1961.

#### EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

#### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

#### APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

#### GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

#### NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Health and Safety at Work Act (As Amended) 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) The Manual Handling Operations Regulations 1992 [SI 1992:2793] Dangerous Substances and Explosive Atmospheres Regulations 2002 [SI 2002: 2776]

### 16 OTHER INFORMATION

### FLOORPACK - HARDENER

REVISION COMMENTS

Major revision (CHIP3) Revisions to sections: (1), (2), (3), (8), (14), (15), and (16) Revision for WEL(Workplace Exposure Limit) section 8. Addition of references to Manual Handling Regulations and Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) in Section 7; Classification of Wastes in Section 13; associated Regulatory References in Section 15.

ISSUED BY

Technical Dept. (P.E.)

REVISION DATE 10/08/2006

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SAFETY DATA SHEET STATUS

Approved.

DATE Date Printed .....

SIGNATURE Initials .....

RISK PHRASES IN FULL

- R20/22 Harmful by inhalation and if swallowed.
- R21/22 Harmful in contact with skin and if swallowed.
- 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.

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.