



Chemical Resin C.O.S.H.H data sheet

1. Substance/Preparation and Company Identification.

Chemical nature: organic peroxide – cure unsaturated polyester resin grout (in a sealed cartridge)

2. Composition/Ingredients

Contains: Unsaturated polyester resin in styrene, dibenzoyl peroxide, dibutyl phthalate and inert fillers.

No	% w/w	CAS Number	Name	EEC Number	Symbol	Risk Phrases
1	10-15	100-42-5	Styrene	601-026-00-0	Xn	R10,20,36/38
2	2-3	94-36-0	Dibenzoyl peroxide	2023276	Xi	R2,36,43,7
3	1-2	84-74-2	Dibutyl phthalate	2015574	None	None

3. Hazard Identification

Note: In use the product presents minimal risk as the material is largely contained within the cartridge system.

Flammable; harmful by inhalation; irritating to eyes and skin; may cause sensitisation by skin contact.

4. First aid measures

Skin Contact

In case of skin contact, wipe off mechanically and wash afflicted areas thoroughly with soap and water.

Eye contact

Rinse carefully and thoroughly with water and seek medical advice.

Inhalation

Move to fresh air, rest in the half upright position, loosen clothing. Seek medical advice after prolonged exposure.

Ingestion

DO NOT induce vomiting because of risk of aspiration. Seek medical advice.

5. Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA

CO₂, foam, dry powder.

UNSUITABLE EXTINGUISHING MEDIA

Halones

EXPOSURE HAZARDS

If involved in a fire, it will support combustion. Do not breath fumes. Wear suitable protective clothing. Cool closed containers with water.



6. Accidental Release Measures

PERSONAL PRECAUTIONS

For personal protection see section 8.

Remove sources of fire.

ENVIRONMENTAL PRECAUTIONS

Collect as much as possible in clean container for re-use or disposal.

Do not empty into drains.

METHODS FOR CLEANING

Sweep up into inert containers. Absorb the remainder with dry sand.

7. Handling and Storage

HANDLING

Observe the necessary precautionary measure for styrene. Ensure adequate ventilation. Do not inhale vapour. Avoid contact with skin and eyes.

STORAGE

Store upright in cool, well ventilated conditions away from direct sunlight.

8. Exposure Controls/Personal Protection

TECHNICAL PROTECTIVE MEASURES

Provided by design of cartridge.

EXPOSURE CONTROL LIMITS

Styrene: 100ppm or 420mg/cu.m. (8h T.W.A.)

Dibenzoyl peroxide 5ml/cu.m. (8h T.W.A.)

RESPIRATORY PROTECTION

Provide adequate ventilation.

The usual precautionary measures for handling chemicals should be observed.

HAND PROTECTION

Wear suitable gloves of neoprene or synthetic rubber.

EYE PROTECTION

Wear eye/face protection

SKIN PROTECTION

Wear suitable protective clothing.

Launder clothes before use.

9. Physical and Chemical Properties

	Base	Catalyst		Base	Catalyst
Melting Point/Range	N/A	N/A	Appearance	Paste	Paste
Boiling Point/Range	145 Deg C	Decomposes	Odour	Characteristic Styrene	Faint
Oxidisation Properties	N/A	N/A	Density	1.49 Typical	1.19 Typical
Autoflammability	-	-	Flashpoint	32 deg C	Above SADT
Solubility in water	Insoluble	Insoluble	Ignition	490 deg C	380 deg C
Vapour Pressure	7m bar@20Deg C	-	Viscosity	Thixotropic	Thixotropic
			SADT	-	50 deg C
			Explosive limits	1.1% by volume (lower) 8.0% by volume (upper)	-

10. Stability and Reactivity

Product is stable and non reactive whilst in cartridge.

THERMAL DECOMPOSITION

The catalyst undergoes self accelerating decomposition at and above 50 degrees C

CONDITIONS TO AVOID

Temperatures above 30 degrees C; exposure to sunlight; naked flame

MATERIALS TO AVOID

Direct contact with acids, alkalis, reducing agents or heavy metal salts.

HAZARDOUS DECOMPOSITION PRODUCTS

Not determined.

11. Toxicology Information

LD 50 Acute oral toxicity in rats: 5000mg/Kg

Special properties: In high concentration styrene has irritating effects on eyes and mucous membranes. Skin contact may cause skin irritation.

12. Ecological Information

Prevent contamination of soil, drains or surface water.

(Styrene) Acute toxicity; ECOO=72m/1

(Catalyst) Acute toxicity (fish) 96h-Le50=2.0mg/1 (Poecilia Reticulata)

(Styrene) Acute toxicity (fish) 48h-Le50=17mg L (Leuciscus Idus)

13. Disposal Conditions

Controlled incineration according to local authority regulations

14. Transport Information

Store away from foodstuffs

RID/ARD=class RN No. 301D

IMDG/Code=3.3, Un 1866 (page 3379)

IATA=3, 1866 III

Flashpoint=32 Degree C (Styrene)

Flammable; marine pollutant; irritating skin and eyes; harmful by inhalation.



15. Regulatory Information

Symbol Xn-Harmful

Contains Resin solution in flammable solvent (Styrene)

R10 Flammable

R20 Harmful by irritation

R36/38 Irritating to eyes and skin

S23 Do not breathe vapour

The product is supplied in sealed containers. Although there is no requirement in normal use to work with the constituent raw materials, they are subject to occupational exposure limits (OEL) or occupational exposure standards (OES) as follows:

Substance	% by weight	Long term exposure limit (Sh TWA)	Short term exposure limit (10min TWA)
Styrene	10-15	100ppm (420mg/cu.m.)	250ppm (1050mg cu.m.)
Dibenzoyl Peroxide	2-3	5.0mg/cu.m.	

16. Other information

Further advice and assistance may be obtained from our offices: Tel: 01254 916 544

Date produced: 28th April 2006

The product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

J.E.B