

SAFETY DATA SHEET CHOCKFAST BLACK RESIN.

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

PRODUCT NAME CHOCKFAST BLACK RESIN.
 PRODUCT NO. Y0005
 SUPPLIER Philadelphia Resins
 SHANNON INDUSTRIAL ESTATE
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2 HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xi;R36/38. R43. R52/53.

HUMAN HEALTH

Preparation contains an epoxy resin, which may cause sensitisation and development of allergy.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|---|-----------|------------|---------|------------------------|
| EPOXY RESIN (Number average MW <= 700) | 500-033-5 | 25068-38-6 | 10-30% | R43 Xi;R36/38 N;R51/53 |
| GAMMA-BUTYROLACTONE | 202-509-5 | 96-48-0 | 1-5% | Xn;R22. Xi;R36. |
| ISO-BUTANOL | 201-148-0 | 78-83-1 | < 1% | R10 Xi;R37/38,R41 R67 |
| XYLENE | 215-535-7 | 1330-20-7 | < 1% | R10 Xn;R20/21 Xi;R38 |

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

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. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Contact physician if discomfort continues.

INGESTION

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. 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.

CHOCKFAST BLACK RESIN.**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Extinguish with foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. 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

By heating and fire, irritating vapours/gases may be formed.

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

Absorb with sand or other inert absorbent. Transfer to covered steel drums for disposal. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Use only in well-ventilated areas. Keep away from heat, sparks and open flame. Open drum carefully as content may be under pressure. Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|-------------|-----|-------------|----------------------------|---------------|----------------------------|-------|
| | | | | | | |
| ISO-BUTANOL | WEL | 50 ppm | 154 mg/m ³ | 75 ppm | 231 mg/m ³ | |
| XYLENE | WEL | 50 ppm(Sk) | 220 mg/m ³ (Sk) | 100 ppm(Sk) | 441 mg/m ³ (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.

CHOCKFAST BLACK RESIN.**EYE PROTECTION**

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

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 | Viscous liquid | | |
| COLOUR | Black | | |
| ODOUR | No characteristic odour. | | |
| SOLUBILITY | Slightly soluble in water. | | |
| BOILING POINT (°C) | 277 | RELATIVE DENSITY | 1.70 20 °C |
| pH-VALUE, CONC. SOLUTION | 7 @ 20 °C | FLASH POINT (°C) | > 254 |
| AUTO IGNITION TEMPERATURE (°C) | >300 | | |

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: Strong oxidising agents. Strong acids. Amines.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Vapours/gases/fumes of: Acids - organic. Aldehydes.

11 TOXICOLOGICAL INFORMATION**SKIN CONTACT**

Irritating to skin. Risk of sensitisation or allergic reactions among sensitive individuals. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

Preparation contains an epoxy resin, which may cause sensitisation and development of allergy.

| | |
|----------------------|---|
| Name | EPOXY RESIN (Number average MW <= 700) |
| Toxic Dose 1 - LD 50 | >2000 mg/kg (oral rat) |
| Toxic Dose 2 - LD 50 | >2000 mg/kg (oral rat) |

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.

MOBILITY

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

WATER HAZARD CLASSIFICATION

WGK 2

CHOCKFAST BLACK RESIN.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

WASTE CLASS

08 04 99

14 TRANSPORT INFORMATION

| | | | |
|-----------|---|------------------|-----|
| GENERAL | The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). | | |
| | No transport warning sign required. | | |
| ADR CLASS | Not classified for transportation. | MARINE POLLUTANT | No. |

15 REGULATORY INFORMATION

LABELLING



Irritant

CONTAINS EPOXY RESIN (Number average MW <= 700)

RISK PHRASES

| | |
|--------|---|
| R43 | May cause sensitisation by skin contact. |
| R36/38 | Irritating to eyes and skin. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

SAFETY PHRASES

| | |
|--------|---|
| 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. |
| S28 | After contact with skin, wash immediately with plenty of water. |
| S37/39 | Wear suitable gloves and eye/face protection. |
| P5 | Contains epoxy constituents. See information supplied by the manufacturer. |

16 OTHER INFORMATION

| | |
|------------------------------|------------|
| REVISION DATE | 16/03/2009 |
| REV. NO./REPL. SDS GENERATED | 5 |
| DATE | 25.01.2005 |

CHOCKFAST BLACK RESIN.

RISK PHRASES IN FULL

| | |
|--------|---|
| R10 | Flammable. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R22 | Harmful if swallowed. |
| R36 | Irritating to eyes. |
| R36/38 | Irritating to eyes and skin. |
| R37/38 | Irritating to respiratory system and skin. |
| R38 | Irritating to skin. |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R67 | Vapours may cause drowsiness and dizziness. |

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.