

# MATERIAL SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

### WOODFORM BASE

Tel: +44 (0) 1462 422 260  
Fax: +44 (0) 1462 422 262  
Emergency Tel: (9.00am—5.00pm)  
+ 44 (0) 1462 422 260

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components:	Cas Number	Percentage
Dibenzoyl Peroxide Powder	94-36-0	1%

## SECTION 3. HAZARDS IDENTIFICATION

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

**Signs and Symptoms of Exposure (Acute Effects)** Skin irritant. Eye irritant could cause pain and watering.

**Signs and Symptoms of Exposure (Possible Long Term Effects)** Skin and eye irritant. Repeated exposure can cause sensitisation.

## SECTION 4. FIRST AID MEASURES

*Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion.*

**Eye:** Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

**Skin:** Remove contaminated clothing. Wash with soap and copious amounts of water. In case of skin eruption seek medical advice.

**Ingestion:** Do not induce vomiting because of risk of aspiration seek medical advice.

**Inhalation:** Move to fresh air and rest. Seek medical attention after significant exposure.

*First Aiders should protect themselves from exposure (Ref to Section 8).*

## SECTION 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, Dry powders, CO2 and Foam. Unsuitable - halones

**Exposure Hazards:** If involved in a fire will support combustion. In case of fire do not breath fumes.

**Fire Fighting Equipment:** Wear suitable protective clothing. Self contained breathing apparatus if involved in a large fire.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Sweep up and place in a suitable container. Do not empty into drains.  
*Refer to section 5, 8 and 13 for Protective Measures and Disposal.*

## SECTION 7. HANDLING AND STORAGE

Keep away from heat and sources of ignition. No sparking tools should be used. Never bring into direct contact with accelerator. Store in a cool dry place. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds.

*When handling, suitable protective clothing should be worn. (Refer to Section 8).*

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

### OCCUPATIONAL EXPOSURE LIMITS. 5.0mg/m3 (Dibenzoyl Peroxide)

**Respiratory:** In case of dust formation, use dust mask. Ensure good ventilation.

**Ingestion:** N/A during normal use.

**Skin Protection:** Wear suitable protective clothing. Usual precautionary measures for handling chemicals should be observed.

**Eye Protection:** Wear eye/face protection.

## SECTION 9. PHYSICAL/CHEMICAL PROPERTIES

**Appearance:** Light Brown Powder

**Odour:** Faint

**Viscosity:** N/A

**Specific Gravity:** 3.55 g/cm<sup>3</sup>

**Boiling Point Range:** Do not distil (decomposes)

**Melting Point/Melting Range:** N/A

**Flash Point:** Above 50 DEG C

**Flammability:** Will support combustion if involved in a fire

**Auto Flammability:** > 380 DEG C

**Explosive Properties:** None

**Oxidising Properties:** Oxidising

**Vapour Pressure:** N/A

**Evaporation Rate:** N/A

**Solubility:** Insoluble

**pH:** N/A

**Partition Coefficient:** N/A

**Di-Electric Strength** N/A

**Additional Information:**

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** A dangerous self accelerating decomposition reaction and under certain circumstances explosion or fire can be caused by direct contact with incompatible substances or by thermal decomposition.

**Materials to Avoid:** Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators.

**Hazardous Decomposition:** Carbon Dioxide, Benzoic Acid, Benzene, Diphenyl, Phenyl Benzoate.

**Hazardous Polymerisations:** None.

**SECTION 11. TOXICOLOGICAL INFORMATION (Based on Dibenzoyl Peroxide 78% in water)**

Oral: LD50 rat > 5000mg/kg  
 Inhalation: LD50 rat > 24.3mg/1 4 hours exposure time max  
 Eye: Mildly irritating (5 min exposure time)  
 Skin: Non irritating (4 hours exposure time)

**SECTION 12. ECOLOGICAL INFORMATION**

Based on Dibenzoyl Peroxide  
 Fish Acute toxicity, 96 h-LC50 = LC50 = 2.0 mg/l (poecilia reticulata)  
 Bateria Activated sludge respiration inhibition test EC50 = 35 mg/l  
 Readily biodegradable

**SECTION 13. DISPOSAL CONSIDERATIONS**

Dispose of according to local regulations. Small amounts of powder can be mixed with resin component and once fully cured can be disposed as solid waste.

**SECTION 14. TRANSPORT INFORMATION**

ADR class 5.2 Item number 8b  
 RID class 5.2 Item number 8b  
 UN number 3108  
 Trem card Cefic Tec (R) 52G01  
 Proper shipping name Organic peroxide type E  
 Solid (Dibenzoyl peroxide)  
 IMO/IMDG Page 5228

**SECTION 15. REGULATORY INFORMATION**

Labeling: Oxidising. Irritant.  
 Risk phrases R7 May cause fire.  
 R36 Irritating to eyes.  
 R43 May cause sensitisation by skin contact.  
 Safety phrases (S3/7/9) Keep container tightly closed in a cool well ventilated area  
 (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 soap and water.  
 (S14) Keep away from reducing agents e.g. amines, acid, alkalis, heavy metal compounds e.g. accelerators driers metal soaps.  
 (S50B) Do not mix with Peroxide accelerators.  
 (S50C) Do not mix with reducing agents.

**SECTION 16. OTHER INFORMATION**

The information contained within this document is furnished without warranty of any kind. Users should consider this data only as a supplement of other information gathered by them and make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees customers.

**Date of Preparation:** 01.02.2003



# MATERIAL SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

### WOODFORM REACTOR

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The Robex Group  
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**Chemical Name & Synonyms:** Unsaturated polyester resin in styrene

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components:	Cas Number	Percentage
Styrene	100-42-5	< 33%

## SECTION 3. HAZARDS IDENTIFICATION

Harmful, flammable.

**Signs and Symptoms of Exposure (Acute Effects)** Irritant to skin, eyes and respiratory tract.

**Signs and Symptoms of Exposure (Possible Long Term Effects)** Irritant can cause skin disorders with repeated prolonged exposure. Inhalation of vapour can cause nausea and headaches.

## SECTION 4. FIRST AID MEASURES *Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion.*

**Eye:** Irrigate with clean running water for at least 15 minutes, seek medical attention.

**Skin:** Remove from skin with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.

**Ingestion:** Seek medical attention. Drink plenty of water. Do not induce vomiting.

**Inhalation:** Remove patient to fresh air and allow to rest. If patient is slow to recover or unconscious obtain medical assistance immediately.

*First Aiders should protect themselves from exposure (Ref to Section 8).*

## SECTION 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** CO2/Dry chemical/Foam.

**Exposure Hazards:** Flammable, sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.

**Fire Fighting Equipment:** N/A

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Do not discharge into sewers. Dike spilled material with liquid absorbent. Scrape or pump into a suitable container. Wash area with water. Refer to section 5, 8 and 13 for Protective Measures and Disposal.**

## SECTION 7. HANDLING AND STORAGE

Store in a cool dry, well ventilated area. Store away from direct sunlight.

*When handling, suitable protective clothing should be worn. (Refer to Section 8)*

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**OCCUPATION EXPOSURE LIMITS.** Long Term: 100ppm (UK)

Short Term: 10 minutes 250 ppm (UK)

**Respiratory:** If forced air extraction is not available in enclosed areas an organic vapour mask will be required, if the occupational exposure limit is exceeded.

**Ingestion:** Unlikely during normal use.

**Skin Protection:** Wear gloves at all times.

**Eye Protection:** Not normally required during normal use. Eye protection goggles should be worn if splashing can occur.

## SECTION 9. PHYSICAL/CHEMICAL PROPERTIES

**Appearance:** Amber Fluid

**Odour:** Styrene

**Viscosity:** 6-8 poise at 25 DEG C

**Specific Gravity:** 1.10g/cm<sup>3</sup> at 20 DEG C

**Boiling Point:** N/A

**Boiling Range:** N/A

**Melting Range:** N/A

**Flash Point:** 31 DEG C

**Flammability:** Flammable

**Auto-Flammability:** 490 DEG C

**Explosive Properties:** Lower Limit 1.1% upper limit 6.1%

**Oxidising Properties:** None

**Vapour Pressure:** 6.52 mb at 20 DEG C (Styrene)

**Evaporation Rate:** N/A

**Solubility:** Insoluble in water. Soluble in solvents

**pH:** N/A

**Partition Coefficient:** N/A

**Di-Electric Strength:** N/A

**Additional Information:**

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** Can Polymerise (solidify) Exothermically if heated, exposed to U/V sunlight or by addition of free radical initiators. Stable under normal conditions.

**Materials to Avoid:** Reacts vigorously with strong oxidising agents and peroxides.

Hazardous Decomposition: Emits acrid smoke and irritating fumes when heated to decomposition.  
Hazardous Polymerisations: Polymerisation in a closed container can give rise to pressure which may rupture the vessel.

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**SECTION 11. TOXICOLOGICAL INFORMATION**  
Oral: Material is classed as harmful. An oral LD50 in rats of 5g/kg for Styrene.  
LC50 in rats ranging between 2770-6000ppm.  
Inhalation: Lung irritant can induce drowsiness and eventual unconsciousness.  
Eye: Severe irritant.  
Skin: Moderate Irritant.

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**SECTION 12. ECOLOGICAL INFORMATION**  
Marine pollutant. Do not discharge into drains or the environment.

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**SECTION 13. DISPOSAL CONSIDERATIONS**  
**In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations.**  
**Small quantities may be reacted with the corresponding quantities of powder. Allow to cure and dispose as solid waste.**

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**SECTION 14. TRANSPORT INFORMATION**  
Supply label: Harmful - Marine Pollutant  
Flammable

<b>IMDG CODE:</b>	3379	<b>UN NO./S.I NO:</b>	1866
<b>EAC:</b>	3 (Y)	<b>HAZARD CLASS:</b>	3
<b>ADR HIN:</b>	30	<b>PACKAGING GROUP:</b>	III

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**SECTION 15. REGULATORY INFORMATION**  
Labelling: Harmful, Flammable - Marine Pollutant

Risk phrases	(R10)	Flammable
	(R20)	Harmful by inhalation
	(R36/38)	Irritating to skin and eyes
Safety Phrases	(S23)	Do not breath vapour

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