

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name: **SPEEDSET HARDENER**
Company: Nickerson Chemicals Limited - Dewsbury - WF12 9BQ
Chemical Name & Synonyms: Dibenzoyl Peroxide paste in phthalate plasticizer
For Information: 01924 461341 (9.00 AM - 5.00 PM)
In an Emergency: As above

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components:	Cas Number	Percentage
Dibenzoyl Peroxide	94-36-0	50%
Diisobutylphthalate	84-69-5	<50%

3. HAZARDS IDENTIFICATION

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

Signs and Symptoms of Exposure (Acute) 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.

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).

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.

6. ACCIDENTAL RELEASE MEASURES

Scrape up and place in a suitable container. Wash area with water. Do not empty into drains.

Refer to section 5, 8 and 13 for Protective Measures and Disposal.

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 form reducing agents e.g. amines, acids, alkalis, heavy metals compounds.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

OCCUPATIONAL EXPOSURE LIMITS. 5.0 mg/m³

Engineering: Explosion proof ventilation recommended
Ventilation: Not normally required when using small quantities
Respiratory: Not required for normal use
Eye Protection: Goggles if splashes can occur
Skin Protection: Wear suitable gloves
Ingestion: N/A during normal use

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance:	White smooth paste	Odour:	Faint
Viscosity:	N/A	Specific Gravity:	1140-1170 kg/m ³ (20°C)
Boiling Point:	Do not distil (decomposes)	Boiling Range:	N/A
Melting Point:	Not Required	Flash Point:	Above the SADT (50°C)
Flammability:	Will support combustion if involved in a fire.	Auto-Flammability:	> 380°C
Explosive Properties:	None	Oxidising Properties:	Oxidising
Vapour Pressure:	Not determined	Evaporation Rate:	N/A
Solubility:	Partly miscible in water	pH:	Slightly acidic
Partition Coefficient:	N/A	Di-Electric Strength:	N/A
Additional Information:	Active oxygen content 3.27-3.37%		
	Peroxide Content 49.5 – 51.0%		

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
Incompatibility:	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

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

Oral:	LD ₅₀ rat > 5000 mg/kg
Inhalation:	LD ₅₀ rat > 24.3 mg/l 4 hours exposure time max.
Eye:	Mildly irritating (5 min exposure time)
Skin:	Slightly irritating (4 hours exposure time)

12. ECOLOGICAL INFORMATION

Based on Dibenzoyl Peroxide

Fish	Acute toxicity, 96 h - LC ₅₀ = 2.0 mg/l (poecilia reticulata)
Bacteria	Activated sludge respiration inhibition test EC ₅₀ = 35 mg/l Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations contaminated packaging should be collected for recycling or most probably controlled incineration

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)
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15. REGULATORY INFORMATION

Labelling:	Oxidising. Irritant.
Risk phrases	R7 May cause fire. R36 Irritating to eyes. R43 May cause sensitisation by skin contact.
Safety Phrases	(S2) Keep out of reach of children (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, acids, alkalis, heavy metal compounds e.g., accelerators driers metal soaps. (S50B) Do not mix with Peroxide accelerators. (S50C) Do not mix with reducing agents.

16. OTHER INFORMATION

Our ref: MSDS. Metolux Safety Data Sheet No.7 **Date of Preparation:** May 2002 **Prepared By:** P Wadsworth

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.

NICKERSON CHEMICALS LIMITED
MILL STREET EAST, DEWSBURY, WEST YORKSHIRE, WF12 9BQ
TEL: 01924 461341 FAX: 01924 458995