

Safetrack LM

SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

UNUSUAL FIRE & EXPLOSION HAZARDS

Closed containers can burst violently when heated, due to excess pressure build-up.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

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

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge to the aquatic environment.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. **DO NOT touch spilled material!** Clean-up personnel should use respiratory and/or liquid contact protection. Absorb spillage with non-combustible, absorbent material. Collect in containers and seal securely. Remove containers and flush area with water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide good ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Persons susceptible for allergic reactions should not handle this product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light, including direct sunrays. Take precautionary measures against static discharges.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHYL METHACRYLATE	WEL	50 ppm	208 mg/m ³	100 ppm	416 mg/m ³	

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Safetrack LM**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Viscous liquid		
COLOUR	Varying		
ODOUR	Characteristic		
SOLUBILITY	Slightly soluble in water. Miscible with Organic solvents		
BOILING POINT (°C)	~ 100°C @ 760 mm Hg	FLASH POINT (°C)	~ 20-22°C CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C)	~ 430°C	FLAMMABILITY LIMIT - LOWER(%)	2.0%
FLAMMABILITY LIMIT - UPPER(%)	13.0%		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use. Avoid: Heat, sparks, flames. Light.

CONDITIONS TO AVOID

Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition. Protect from light, including direct sunrays.

HAZARDOUS POLYMERISATION

Polymerises easily with evolution of heat. Keep cool.

MATERIALS TO AVOID

Avoid contact with oxidizers, acids, aluminium, zinc, amines, peroxides, aluminium- and iron-chlorides.

11 TOXICOLOGICAL INFORMATION**INHALATION**

Gas or vapour in high concentrations may irritate respiratory system.

INGESTION

May cause discomfort if swallowed. May cause stomach pain or vomiting. Headache. Diarrhoea.

SKIN CONTACT

Liquid may irritate skin. May cause sensitisation by skin contact.

EYE CONTACT

Splashes may irritate. Spray and vapour in the eyes may cause irritation and smarting.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

DEGRADABILITY

The product is not readily biodegradable.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Cured product can be peeled from the inside of the bucket, if required, to leave a clean, re-usable container. Empty containers should be disposed of in accordance with Local Authority guidelines. Cured product can be disposed of as industrial waste. Unused resin and powder catalyst must be treated as hazardous waste.

14 TRANSPORT INFORMATION

Safetrack LM



UK ROAD CLASS	3	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	RESIN SOLUTION	ADR CLASS	Class 3: Flammable liquids.
UN NO. ROAD	1866	TUNNEL RESTRICTION CODE	(D/E)
ADR CLASS NO.	3	ADR LABEL NO.	3
ADR PACK GROUP	II	RID CLASS NO.	3
HAZARD No. (ADR)	33	UN NO. SEA	1866
HAZCHEM CODE	3YE	IMDG PACK GR.	II
RID PACK GROUP	II	UN NO. AIR	1866
IMDG CLASS	3	AIR PACK GR.	II
EMS	F-E, S-E		
AIR CLASS	3		

15 REGULATORY INFORMATION

LABELLING



Irritant



Highly Flammable

CONTAINS

BUTYL METHACRYLATE -norm
 METHYL METHACRYLATE
 MIXTURE OF ALKYL ESTERS OF 2-ALKYL 2-PROPENOIC ACID

RISK PHRASES

- R11 Highly flammable.
- R43 May cause sensitisation by skin contact.

SAFETY PHRASES

- S16 Keep away from sources of ignition - No smoking.
- S24 Avoid contact with skin.
- S35 This material and its container must be disposed of in a safe way.
- S37 Wear suitable gloves.
- S51 Use only in well-ventilated areas.

EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

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

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Safetrack LM**16 OTHER INFORMATION**

GENERAL INFORMATION

This SAFETY DATA SHEET refers to all colours/variants of this product. This product is intended for use for the application set out in the technical data sheet only. The risk phrases shown below relate to the individual ingredients in section 3. The relevant risk phrases for the overall product are ONLY those shown in section 15.

REVISION DATE 13/01/2009

RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R25	Toxic if swallowed.
R33	Danger of cumulative effects.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37/38	Irritating to respiratory system and skin.
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.



THE TECHNOLOGY OF PROTECTION

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**SAFETY DATA SHEET
Powder Catalyst**

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME Powder Catalyst
 SUPPLIER STIRLING LLOYD POLYCHEM LTD.
 UNION BANK, KING STREET,
 KNUTSFORD,
 CHESHIRE, WA16 6EF.
 T : +44(0)1565 633111
 (Technical/Commercial enquiries)
 F : +44(0)1565 633555
 sdsadministrator@stirlinglloyd.com
 EMERGENCY TELEPHONE For chemical emergencies please contact the National Chemical Emergency Centre on :-
 +44 (0)870 190 6777

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION Xi;R36. R43. O;R7.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BENZOYL PEROXIDE	202-327-6	94-36-0	30-60%	E;R2 R43 Xi;R36

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

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

INGESTION

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 immediately!

SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Water spray. Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Be aware of risk of fire re-starting, and risk of explosion.

UNUSUAL FIRE & EXPLOSION HAZARDS

May re-ignite after fire is extinguished. Risk of explosion if heated. Dust may form explosive mixture with air.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Powder Catalyst

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

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

SPILL CLEAN UP METHODS

Dampen spillage with water. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use non sparking handtools and explosion-proof electric equipment. Shovel into dry containers. Cover and move the containers. Flush the area with water. Avoid generation and spreading of dust. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Use explosion proof electric equipment. Do not handle broken packages without protective equipment. Persons susceptible for allergic reactions should not handle this product.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5°C and 25°C.

STORAGE CLASS

Oxidiser storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
BENZOYL PEROXIDE	WEL		5 mg/m3			

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide explosion proof ventilation for high concentrations.

RESPIRATORY EQUIPMENT

Wear respirator if there is dust formation. Dust filter P2 (for fine dust).

HAND PROTECTION

Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

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

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust
COLOUR	White
ODOUR	Slight odour

Powder Catalyst

SOLUBILITY	Not soluble in water.		
MELTING POINT (°C)	>40°C	BULK DENSITY	620-650 kg/m3
DECOMPOSITION TEMPERATURE (°C)	55°C	FLASH POINT (°C)	N/A

10 STABILITY AND REACTIVITY

STABILITY

SADT-(self accelerating decomposition temperature)is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by decomposition at and above the following temperature.: 55°C. Will decompose at temperatures exceeding 55 °C

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Chemically active metals. Metal oxides. Copper. Acids. Alkalies. Reducing Agents.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	> 5000 mg/kg (oral rat)
TOXIC CONC. - LC 50	> 24.3 mg/l/4h (inh-rat)

SKIN CONTACT

May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l	2.0
EC 50, 48 Hrs, DAPHNIA, mg/l	2.91

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION



UK ROAD CLASS	5.2		
PROPER SHIPPING NAME	ORGANIC PEROXIDE TYPE D, SOLID (CONTAINS BENZOYL PEROXIDE)		
UN NO. ROAD	3106	ADR CLASS NO.	5.2
ADR CLASS	Class 5.2: Organic peroxides.	TUNNEL RESTRICTION CODE	(D)
ADR LABEL NO.	5.2	HAZCHEM CODE	1WE
RID CLASS NO.	5.2	UN NO. SEA	3106
IMDG CLASS	5.2	EMS	F-J, S-R
UN NO. AIR	3106	AIR CLASS	5.2

15 REGULATORY INFORMATION

LABELLING

Powder Catalyst

Irritant



Oxidising

CONTAINS

BENZOYL PEROXIDE

RISK PHRASES

R7 May cause fire.
 R36 Irritating to eyes.
 R43 May cause sensitisation by skin contact.

SAFETY PHRASES

S22 Do not breathe dust.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S3/7 Keep container tightly closed in a cool place.
 S50A Do not mix with peroxide accelerators or reducing agents.
 S14 Keep away from acids, bases, reducing substances and heavy metals.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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16 OTHER INFORMATION

GENERAL INFORMATION

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REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 15/01/2009

RISK PHRASES IN FULL

R2 Risk of explosion by shock, friction, fire or other sources of ignition.
 R36 Irritating to eyes.
 R43 May cause sensitisation by skin contact.

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