



www.stirlinglloyd.com

**SAFETY DATA SHEET**  
**Safetrack LM**

According to Regulation (EC) No 1907/2006

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

**PRODUCT NAME** Safetrack LM

**SUPPLIER** STIRLING LLOYD POLYCHEM LTD.  
UNION BANK, KING STREET,  
KNUTSFORD,  
CHESHIRE, WA16 6EF.  
UNITED KINGDOM  
T : +44(0)1565 633111  
(Technical/Commercial enquiries)  
F : +44(0)1565 633555  
sdsadministrator@stirlinglloyd.com

**EMERGENCY TELEPHONE** For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident) - Call CHEMTREC (Day/Night) on:-  
Within USA & Canada : 1-800-424-9300  
Outside USA & Canada : +1 703-527-3887

**2 HAZARDS IDENTIFICATION**

Highly flammable. May cause sensitisation by skin contact.

**CLASSIFICATION (1999/45)** R43. F;R11.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
METHYL METHACRYLATE	201-297-1	80-62-6	5-10%	F;R11 R43 Xi;R37/38
MIXTURE OF ALKYL ESTERS OF 2-ALKYL 2-PROPENOIC ACID	203-080-7	103-11-7	1-5%	R43 Xi;R37/38
BUTYL METHACRYLATE -norm	202-615-1	97-88-1	1-5%	R10 R43 Xi;R36/37/38
N,N-DIMETHYL-PARA-TOLUIDINE	202-805-4	99-97-8	< 1%	T;R23/24/25 R33 R52/53
MIXTURE OF ALKYL AND HYDROXYALKYL SUBSTITUTED P-TOLUIDINES	254-075-1	38668-48-3	< 1%	T;R25. R52/53.

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

**4 FIRST-AID MEASURES**

**INHALATION**

Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION**

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Get medical attention immediately!

**SKIN CONTACT**

Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. 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: Foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

## 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 (NOx).

### 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 to 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/m3	100 ppm	416 mg/m3	

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 occupational 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.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

## Safetrack LM

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

<b>Name</b>	BUTYL METHACRYLATE -norm
<b>Toxic Dose 1 - LD 50</b>	16000 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	11300 mg/kg (dermal-rbt)
<b>Toxic Conc. - LC 50</b>	4910 ppm/4h (inh-rat)

#### Other Health Effects

NTP Not Listed. IARC Not Listed.

<b>Name</b>	METHYL METHACRYLATE
<b>Toxic Dose 1 - LD 50</b>	8400 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	> 5000 mg/kg (dermal-rbt)
<b>Toxic Conc. - LC 50</b>	7093 ppm/4h (inh-rat)

#### Other Health Effects

IARC Class 3. NTP Not Listed.

<b>Name</b>	MIXTURE OF ALKYL ESTERS OF 2-ALKYL 2-PROPENOIC ACID
<b>Toxic Dose 1 - LD 50</b>	5660 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	14000 mg/kg (dermal-rbt)

#### Other Health Effects

IARC Class 3. NTP Not Listed.

<b>Name</b>	TITANIUM DIOXIDE
-------------	------------------

#### Other Health Effects

NTP Not Listed. IARC Group 2B (possibly carcinogenic to humans).

### 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.

## Safetrack LM

### 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



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

## 15 REGULATORY INFORMATION

### LABELLING



Irritant



Highly Flammable

### CONTAINS

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

### 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.

**Safetrack LM**

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.

**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 components in Section 3 and NOT to the Product.

The Risk Phrases for the Product are shown in Section 2.

**REVISION COMMENTS**

Change from previous version concerns: Change to Emergency Contact Details.

**REVISION DATE** 13/12/2011

**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.



www.stirlinglloyd.com

**SAFETY DATA SHEET  
BPO Powder Catalyst**

According to Regulation (EC) No 1907/2006

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

**PRODUCT NAME** BPO Powder Catalyst  
**SUPPLIER** STIRLING LLOYD POLYCHEM LTD.  
 UNION BANK, KING STREET,  
 KNUTSFORD,  
 CHESHIRE, WA16 6EF.  
 UNITED KINGDOM  
 T : +44(0)1565 633111  
 (Technical/Commercial enquiries)  
 F : +44(0)1565 633555  
 sdsadministrator@stirlinglloyd.com  
**EMERGENCY TELEPHONE** For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident) - Call CHEMTREC (Day/Night) on:-  
 Within USA & Canada : 1-800-424-9300  
 Outside USA & Canada : +1 703-527-3887

**2 HAZARDS IDENTIFICATION**

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

**CLASSIFICATION (1999/45)** Xi;R36. R43. O;R7.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
DIBENZOYL PEROXIDE	202-327-6	94-36-0	30-60%	E;R3 O;R7 Xi;R36 R43

The Full Text for all R-Phrases is 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.

**SPECIFIC HAZARDS**

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

## BPO Powder Catalyst

### 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

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 to 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
DIBENZOYL 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

<b>APPEARANCE</b>	Powder, dust
<b>COLOUR</b>	White
<b>ODOUR</b>	Slight odour

**BPO Powder Catalyst**

<b>SOLUBILITY</b>	Not soluble in water.
<b>MELTING POINT (°C)</b>	>40°C
<b>BULK DENSITY</b>	620-650 kg/m <sup>3</sup>
<b>DECOMPOSITION TEMPERATURE (°C)</b>	55°C
<b>FLASH POINT (°C)</b>	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.

**HAZARDOUS POLYMERISATION**

Will not polymerise.

**MATERIALS TO AVOID**

Chemically active metals. Metal oxides. Copper. Acids. Alkalis. 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.

<b>Name</b>	DIBENZOYL PEROXIDE
<b>Toxic Dose 1 - LD 50</b>	> 5000 mg/kg (oral rat)
<b>Toxic Conc. - LC 50</b>	> 24.3 mg/l/4h (inh-rat)
<b>Other Health Effects</b>	IARC Class 3. NTP Not Listed.

**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**

<b>PROPER SHIPPING NAME</b>	ORGANIC PEROXIDE TYPE D, SOLID (CONTAINS DIBENZOYL PEROXIDE)
<b>UN NO. ROAD</b>	3106
<b>ADR CLASS NO.</b>	5.2
<b>ADR CLASS</b>	Class 5.2: Organic peroxides.
<b>TUNNEL RESTRICTION CODE</b>	(D)
<b>ADR LABEL NO.</b>	5.2

## BPO Powder Catalyst

<b>HAZCHEM CODE</b>	1WE
<b>UN NO. SEA</b>	3106
<b>IMDG CLASS</b>	5.2
<b>EMS</b>	F-J, S-R
<b>UN NO. AIR</b>	3106
<b>AIR CLASS</b>	5.2

### 15 REGULATORY INFORMATION

**LABELLING**



Irritant



Oxidising

**CONTAINS**

DIBENZOYL 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.

**STATUTORY INSTRUMENTS**

Control of Substances Hazardous to Health. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

**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.

### 16 OTHER INFORMATION

**GENERAL INFORMATION**

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 components in Section 3 and NOT to the Product.  
 The Risk Phrases for the Product are shown in Section 2.

**REVISION COMMENTS**

Change from previous version concerns: Change to Emergency Contact Details.

**REVISION DATE** 13/12/2011

**RISK PHRASES IN FULL**

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition. , R36 Irritating to eyes. ,  
 R43 May cause sensitisation by skin contact. , R7 May cause fire.

**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.