

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11.05.2012

FAST CAT CURING AGENT

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade name : FAST CAT CURING AGENT

Company : Mouldlife Ltd
Miro House
Western Way (West), Bury St Edmunds, Suffolk
United Kingdom

Service : Mouldlife Ltd Tel: +44 (0)1638 750679
Fax: +44 (0)1638 751779

Emergency Phone Number : Mouldlife Ltd Tel: +44 (0)1638 750679
Fax: +44 (0)1638 751779

E-mail address (Safety Data Sheet) : info@mouldlife.co.uk

Use of the substance/preparation : Vulcanising agents
Polymers

2. HAZARDS IDENTIFICATION

The principal hazards of the product as supplied are:

Flammable.
Harmful if swallowed.

Vapours may form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Organotin compound

Hazardous Ingredients:

Name	CAS-No.	EINECS/ ELINCS No.	Conc. (% w/w)	Classification	
Silicic acid (H ₄ SiO ₄), tetraethyl ester, hydrolyzed	68412-37-3	270-184-7	21.0		
Dimethylbis[(1-oxonodecyl) oxy]stannane	68928-76-7	273-028-6	15.0	Xn	R22 R52/53
Trimethoxy(methyl)silane	1185-55-3	214-685-0	9.7	F Xn	R11 R22
Tetraethyl silicate	78-10-4	201-083-8	3.8	Xn	R20

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11/05/2012

FAST CAT CURING AGENT

				Xi	R36/37 R10
Methanol	67-56-1	200-659-6	0.2	F T	R11 R39/23/24/25 R23/24/25

4. FIRST AID MEASURES

- On contact with eyes** : Flush with water.
- On skin contact** : Flush with water.
- If inhaled** : Remove to fresh air.
- On ingestion** : Obtain medical attention.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.
- Unsuitable extinguishing media** : None known.
- Hazards during fire fighting** : Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Vapours may form explosive mixtures with air.
- Special protective equipment/procedures** : A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after the fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.
- Hazardous Combustion Products** : Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear proper protective equipment.
- Precautions to protect the environment** : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11.05.2012

FAST CAT CURING AGENT

Methods for cleaning up : Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a container with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

Advice on safe handling : General ventilation is required. Local ventilation is recommended. Avoid eye contact. Do not breathe vapour. Do not ingest.

Advice on storage : Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed. Vapours may form explosive mixtures with air.

Specific uses : Refer to technical data sheet available on request.

Unsuitable packaging materials : None known.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Ventilation : Refer to Section 7

Exposure controls for hazardous components

Name	CAS-No.	Exposure Limits
Silicic acid (H ₄ SiO ₄), tetraethyl ester, hydrolyzed	68412-37-3	10 ppm TWA; 30 ppm STEL as ethyl silicate.
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	0.2 mg/m ³ STEL as Sn 0.1 mg/m ³ TWA as Sn
Trimethoxy(methyl)silane	1185-55-3	200 ppm TWA, 250 ppm STEL as methanol
Tetraethyl silicate	78-10-4	30 ppm STEL 10 ppm TWA 260 mg/m ³ STEL 87 mg/m ³ TWA
Methanol	67-56-1	250 ppm STEL 200 ppm TWA 333 mg/m ³ STEL 266 mg/m ³ TWA

Personal protection equipment

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11.05.2012

FAST CAT CURING AGENT

Respiratory protection	:	Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded. A filtering half mask is recommended. Recommended Filter type: AX The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.
Hand protection	:	Gloves are not normally required.
Eye protection	:	Safety glasses should be worn.
Skin protection	:	Protective equipment is not normally necessary.
Hygiene measures	:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
Environmental exposure controls	:	Refer to section 6 and 12.
Additional information	:	These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these types of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Liquid	Colour:	Clear to slightly hazy, colourless	Odour:	Very little
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Important health, safety and environmental information

Boiling point/range	:	> 65 °C
Flash point	:	42 °C (Pensky-Martens Closed Cup)
Explosive properties	:	No Vapours may form explosive mixtures with air.
Specific Gravity	:	1.004
Viscosity	:	30 mPa s at 25°C.
Oxidizing properties	:	No

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11/05/2012

FAST CAT CURING AGENT

Stability	:	Stable under normal usage conditions.
Conditions to avoid	:	None established.
Materials to avoid	:	Can react with strong oxidising agents. Hydrolyses in the presence of water or moisture, releasing a small amount of methanol.
Hazardous decomposition products	:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

On contact with eyes	:	May cause temporary discomfort.
On skin contact	:	No adverse effects are normally expected.
If inhaled	:	May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
On ingestion	:	Harmful if swallowed.

¹ Based on product test data.

² Based on test data from similar products.

12. ECOLOGICAL INFORMATION

Environmental fate and distribution

This product hydrolyses in water or wet soil, releasing alcohols and silicic acid.

Ecotoxicity effects

This product contains substances which may cause adverse effects in the aquatic environment.

Bioaccumulation : Organotin compounds can bioaccumulate.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

Product disposal	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Packaging disposal	:	Dispose of in accordance with local regulations. Waste codes should be assigned by the

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11/05/2012

FAST CAT CURING AGENT

user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION

Road / Rail (ADR/RID)

UN No. : UN 1993

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.(Methyltrimethoxysilane / Tetraethyl orthosilicate)

Class : 3

Packing group : III

Labels : 3

Sea transport (IMDG)

UN No. : UN 1993

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.(Methyltrimethoxysilane / Tetraethyl orthosilicate)

Class : 3

Packing group : III

Emergency Schedule (EmS) : F-E
S-E

Marine pollutant : Dimethyltin Di-Neodecyl Ester

Labels : flammable liquid

Air transport (IATA)

UN No. : UN 1993

Proper Shipping Name : Flammable liquid, n.o.s.(Methyltrimethoxysilane / Tetraethyl orthosilicate)

Class : 3

Packing group : III

Labels : Flammable Liquid

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 12/05/2012

FAST CAT CURING AGENT

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Contains	: Dimethylbis[(1-oxoneodecyl)oxy]stannane
Symbols	: Xn Harmful.
R-phrases	: R10 Flammable. R22 Harmful if swallowed.
S-phrases	: S2 Keep out of the reach of children. S46 If swallowed, seek medical advice immediately and show this container or label. S51 Use only in well-ventilated areas.

National legislation / regulations

Ozone depleting chemicals	: No ozone depleting chemicals are present or used in manufacture.
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Status

AICS	: All ingredients listed, exempt or notified.
DSL	: All ingredients listed or exempt.
IECSC	: All ingredients listed or exempt.
EINECS	: All ingredients listed, exempt or notified (ELINCS).
KECL	: All ingredients listed, exempt or notified.
PICCS	: All ingredients listed, exempt or notified.
TSCA	: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
MITI	: All ingredients listed, exempt or notified.

PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0

Revision Date: 11.05.2012

FAST CAT CURING AGENT

16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Mouldlife product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Mouldlife Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Mouldlife shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Mouldlife supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Mouldlife supplier.

R10 Flammable., **R11** Highly flammable., **R20** Harmful by inhalation., **R22** Harmful if swallowed., **R23/24/25** Toxic by inhalation, in contact with skin and if swallowed., **R36/37** Irritating to eyes and respiratory system., **R39/23/24/25** Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed., **R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.