



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Trade Name: **Silicone Catalyst (all speeds)**

Supplier name/address: **INDUSTRIAL PLASTERS LTD**
63 Netherstreet, Bromham
CHIPPENHAM
Wiltshire
SN15 2DP

Tel: 01380 850616
Fax: 01380 859638

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: **Organotin compound**

Hazardous ingredients:

Name	CAS-No.	EINECS/ ELINCS No:	Conc. (% w/w)	Classification
Tetrapropyl orthosilicate	682-01-9	211-659-0	25.0	Xi R36/38
Trimetho- xyphenylsilane	2996-92-1	221-066-9	11.0	Xn R22
Dimethylbis	68928-76-7	273-028-6	2.0	Xn R22 R52/53
Methanol	67-56-1	200-659-6	0.37	F T R11 R39/23/24/25
Cyclohexyl Trimethoxysilane		Exempt or not available	0.25	N R51/53 Xn R22 Xi R38
Tetramethyl orthosilicate	681-84-5	211-656-4	<=0.14	T R25 R10 T+ R26



3. HAZARDS IDENTIFICATION

The principal hazards of the products are:

Harmful by inhalation.

Irritating to eyes and skin.

Vapours may form explosive mixtures with air.

4. FIRST AID MEASURES

On contact with eyes: Immediately flush with water. If eye irritation persists, consult a specialist.

On skin contact: Immediately flush with water. If skin irritation persists, get medical attention.

If inhaled: Remove to fresh air. Obtain medical attention.

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: None known.

Special protective should equipment/procedures: A self-contained respirator and protective clothing 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 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.

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6. ACCIDENTAL RELEASE MEASURE

Personal precautions:	Wear proper protective equipment.
Precautions to protect the environment:	Prevent from spreading or entering into drains or rivers by using sand, earth or other appropriate barriers.
Methods of cleaning up:	Determine the need to evacuate or isolate the area according to your local emergency plan. 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:	Avoid skin and eye contact. General ventilation is required. Local ventilation is required. Do not breathe vapour. Do not ingest.
Advice on storage:	Do not store with oxidizing agents. 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
Trimethoxyphenylsilane	2996-92-1 as	200 ppm TWA, 250 ppm STEL



Dimethylbis	68928-76-7	0.2mg/m3 STEL as Sn 0.1mg/m3 TWA as Sn
Methanol	67-56-1	250 ppm STEL 200 ppm TWA 333 mg/m3 STEL 266mg/m3 TWA
Cyclohexyltrimethoxysilane		200ppm TWA, 250ppm STEL
Tetramethyl orthosilicate	681-84-5	5 ppm STEL 1 ppm TWA 32 mg/m3 STEL 6.3 mg/m3 TWA

Personal protection equipment

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 full-face 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:

Chemical protective gloves should be worn.

Regarding gloves breakthrough time....contact your chemical glove supplier.

Eye protection:

Face shield or safety goggles.

Skin protection:

Wear impervious overalls in circumstances where significant skin contact can occur.

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 or contact the supplier.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Liquid

Colour: Red/Orange

Odour: Very Little

Other data

Boiling point/range : >65°C

Flash point : 64°C (Closed Cup)

Autoignition temperature : >300°C

Explosive properties : No
Vapours may form explosive mixtures in air.

Specific Gravity : 0.96

Viscosity : 40 mPas at 25°C

Oxidizing properties : No

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



10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

On contact with eyes :	Irritating.
On skin contact :	Irritating.
If inhaled :	Harmful by inhalation of vapour. May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentration, unconsciousness.
On ingestion:	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort. Forms methanol and may cause serious injury to man > 200mg/kg.

Other Health Hazard Information: Product may emit formaldehyde vapours at temperatures above 150°C in the presence of air.



Formaldehyde vapour is harmful by inhalation and irritating to eyes and respiratory system at breathing concentration less than one part per million (1 ppm).

¹Based on product test data.

²Based 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. This product hydrolyses in water or moist air, releasing methanol and organosilicons.

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.

Packaging disposal : Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

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Road/Rail (ADR/RID) #

UN No: 3082

Proper Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S (Dimethyltin Di-Neodecyl Ester)

Class: 9

Packing group: III

Labels: 9

Sea transport (IMDG)

UN No: 3082

Proper Shipping name: Environmentally Hazardous Substance, Liquid, N.O.S (Dimethyltin Di-Neodecyl Ester)

Class: 9

Packing group: III

Emergency Schedule: F-A
S-F

Marine pollutant: Dimethyltin Di-Neodecyl Ester

Labels: Miscellaneous

Air transport (IATA)

Not subject to IATA regulations.



15. REGULATORY INFORMATION

Labelling according to EEC Directive

Contains: Tetramethyl ortgosilicate

Symbols: Xn Harmful

R-phrases: Harmful by inhalation.
R36/38 Irritating to eyes and skin.

S-phrases: S2 Keep out of the reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S46 If swallowed, seek medical advice immediately and show the container label.
S51 Use only in well ventilated areas.

National legislation/regulations

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

Status

EINECS : All ingredients listed are exempt or notified (ELINCS)..

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.



16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 88/379/EC as well as their 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 Material 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 this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this Material Safety Data Sheet to their own Safety Data Sheet in compliance with Commission Directive 88/379/EC.

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

As stated above, this Material 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 supplier an MSDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the MSDS may vary – even for the same product – between different countries, reflecting the different compliance requirements. Should you have any question, please refer to Industrial Plasters Ltd.