



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

**Trade Name:** REP- Catalyst 'VF' RED

**Company:** REP INDUSTRIAL MATERIALS LIMITED  
UNIT 4, PARCHFIELDS FARM  
RUGELEY  
STAFFORDSHIRE  
WS15 3HB

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### 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
Trimethoxyphenylsilane	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 Xn Xi	R51/53 R22 R38
Tetramethyl orthosilicate	681-84-5	211-656-4	<=0.14	T T+	R25 R10 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

<b>On contact with eyes:</b>	Immediately flush with water. If eye irritation persists, consult a specialist.
<b>On skin contact:</b>	Immediately flush with water. If skin irritation persists, get medical attention.
<b>If inhaled:</b>	Remove to fresh air. Obtain medical attention.
<b>On ingestion:</b>	Obtain medical attention.

#### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Carbon dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.
<b>Unsuitable extinguishing media:</b>	None known.
<b>Hazards during fire fighting:</b>	None known.
<b>Special protective equipment/procedures:</b>	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.
<b>Hazardous Combustion</b>	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

<b>Personal precautions:</b>	Wear proper protective equipment.
<b>Precautions to protect the environment:</b>	Prevent from spreading or entering into drains or rivers by using sand, earth or other appropriate barriers.
<b>Methods of cleaning up:</b>	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

<b>Advice on safe handling:</b>	Avoid skin and eye contact. General ventilation is required. Local ventilation is required. Do not breathe vapour. Do not ingest.
<b>Advice on storage:</b>	Do not store with oxidizing agents. Vapours may form explosive mixtures with air.
<b>Specific uses:</b>	Refer to technical data sheet available on request.
<b>Unsuitable packaging materials:</b>	None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Ventilation: Refer to Section 7.

### **Exposure controls for hazardous components**

<b>Name</b>	<b>CAS-No.</b>	<b>Exposure Limits</b>
Trimethoxyphenylsilane	2996-92-1	200 ppm TWA, 250 ppm STEL as
Dimethylbis	68928-76-7	0.2mg/m <sup>3</sup> STEL as Sn 0.1mg/m <sup>3</sup> TWA as Sn
Methanol	67-56-1	250 ppm STEL 200 ppm TWA 333 mg/m <sup>3</sup> STEL 266mg/m <sup>3</sup> TWA
Cyclohexyltrimethoxysilane		200ppm TWA, 250ppm STEL

Tetramethyl orthosilicate	681-84-5	5 ppm STEL 1 ppm TWA 32 mg/m <sup>3</sup> STEL 6.3 mg/m <sup>3</sup> TWA
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**Personal protection equipment**

<b>Respiratory protection:</b>	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.
<b>Hand protection:</b>	Chemical protective gloves should be worn: Silver shield™ 4H™. Regarding gloves breakthrough time....contact your chemical glove supplier.
<b>Eye protection:</b>	Face shield or safety goggles.
<b>Skin protection:</b>	Wear impervious overalls in circumstances where significant skin contact can occur.
<b>Hygiene measures:</b>	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
<b>Environmental exposure Controls:</b>	Refer to section 6 and 12.
<b>Additional information:</b>	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 REP IND MAT Ltd.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

**Form:** Liquid

**Colours:** RED

**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 REP IND MAT Ltd 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).

<sup>1</sup>Based on product test data.

<sup>2</sup>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. 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

#### 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

<b>Contains:</b>	Tetramethyl ortgosilicate
<b>Symbols:</b>	Xn Harmful
<b>R-phrases:</b>	Harmful by inhalation. R36/38 Irritating to eyes and skin.
<b>S-phrases:</b>	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

<b>EINECS :</b>	All ingredients listed are exempt or notified (ELINCS)..
<b>TSCA :</b>	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
<b>MITI:</b>	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 the REP IND MAT Ltd product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the REP IND MAT Ltd Material Safety Data Sheet to their own Material 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 the present MSDS. REP INDUSTRIAL MATERIALS Limited 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 REP IND MAT Ltd a 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 REP Industrial Materials Ltd.

REP IND MAT Ltd, is an abbreviation of REP Industrial Materials Limited.

END OF DATA SHEET