

SAFETY DATA SHEET

1 of 3

Catalyst C

Revision No. 1

Print Date 01 June 2005

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

Product name Catalyst C

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Conc.	CAS	EINECS
Vinyltrimethoxysilane	90-100% R10 Xi;R36 Xi;R37 Xi;R38	2768-02-7	
Methanol	1-10% T;R23/24/25-39/23/24/25 F;R11	67-56-1	200-659-6

3. HAZARDS IDENTIFICATION

Most important hazards Flammable. Irritating to eyes, respiratory system and skin.

4. FIRST AID MEASURES

Skin contact Irritating to skin. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Eye contact Irritating to eyes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Inhalation Irritating to respiratory system. Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Move to fresh air. Consult a physician after significant exposure.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Consult a physician if necessary. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	carbon dioxide (CO ₂) dry chemical
Specific hazards	Flammable. Burning produces obnoxious and toxic fumes.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas.
Environmental precautions	Do not let product enter drains. Prevent further leakage or spillage.
Methods for cleaning up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Ensure adequate ventilation or exhaust ventilation in the working area. Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from sources of ignition - No smoking.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Methanol	WEL 8-hr limit ppm: 200	WEL 8-hr limit mg/m ³ : 266
	WEL 15 min limit ppm: 250	WEL 15 min limit mg/m ³ : 333

Engineering measures	Ensure adequate ventilation, especially in confined areas.
Respiratory protection	Wear self contained breathing apparatus for fire fighting if necessary.
Hand protection	PVC or other plastic material gloves
Eye protection	goggles
Skin and body protection	Wear chemical protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	liquid
Colour	light yellow
Odour	ester-like
Boiling point/range	122°C
Flash point	27.7°C
Explosive properties	Upper limit = 19.9%(V) @ 82°C Lower limit = 1.4%(V) @ 82°C
Vapour pressure	11.97 hPa (9.0 mmHg) at 20°C
Vapour density	Heavier than air
Evaporation rate	<1
Melting point/range	<-70°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Incompatible with oxidising agents.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity LD50/oral/rat = >7.300 mg/kg LD50/dermal/rabbit = >3400 mg/kg LC50/inhalation/4h/rat = 16.70 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity effects No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR/RID

UN-No 1993	Packing group III
Class 3	Hazard ID 30
Proper shipping name FLAMMABLE LIQUID, N.O.S. (Vinyltrimethoxysilane, Methanol, Ethyltrimethoxysilane)	

IMO

UN-No 1993	Packing group III
Class 3	Marine pollutant NO
EmS F-E S-E	

IATA-DGR

UN-No 1993	Packing group III
Class 3	Sub-risks -
packaging 310	

15. REGULATORY INFORMATION

Labelling The product is classified and labelled in accordance with Directive 1999/45/EC.
The product is classified in accordance with Annex VI to Directive 67/548/EEC.

Symbol(s): Xi - Irritant



R-phrases(s) R10 - Flammable.
R36/37/38 - Irritating to eyes, respiratory system and skin.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2 R10 - Flammable.
R11 - Highly flammable.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R36 - Irritating to eyes.
R37 - Irritating to respiratory system.
R38 - Irritating to skin.
R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Further information The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.
The 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,