

# SAFETY DATA SHEET

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## Catalyst D

Revision No. 1

Print Date 01 June 2005

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

**Product name** Catalyst D

**Company** Unilam International Limited  
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Leeds  
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United Kingdom

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Conc.	CAS	EINECS
Acrylic Polymer	10-20% Xi;R36 Xi;R37 Xi;R38	9003-01-4	
Toluene	1-10% Xn;R20 F;R11	108-88-3	203-625-9
Butanone	60-70% F;R11 Xi;R36 Xi;R66 -;R67	78-93-3	201-159-0

### 3. HAZARDS IDENTIFICATION

**Most important hazards** Highly flammable. Irritating to eyes, respiratory system and skin. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

### 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

<b>Suitable extinguishing media</b>	carbon dioxide (CO <sub>2</sub> ) dry chemical foam
<b>Specific hazards</b>	Highly flammable. Burning produces obnoxious and toxic fumes. Flash back possible over considerable distance. Vapours may form explosive mixture with air.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas.
<b>Environmental precautions</b>	Do not let product enter drains. Prevent further leakage or spillage.
<b>Methods for cleaning up</b>	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

<b>Handling</b>	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.
<b>Storage</b>	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)

Toluene	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m <sup>3</sup> : 191
	WEL 15 min limit ppm: 150	WEL 15 min limit mg/m <sup>3</sup> : 574
Butan-2-one (methyl ethyl ketone)	WEL 8-hr limit ppm: 200	WEL 8-hr limit mg/m <sup>3</sup> : 600
	WEL 15 min limit ppm: 300	WEL 15 min limit mg/m <sup>3</sup> : 899

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	liquid
<b>Colour</b>	cloudy
<b>Odour</b>	characteristic
<b>Boiling point/range</b>	80°C
<b>Flash point</b>	20°C
<b>Vapour pressure</b>	70 mm Hg @20°C
<b>Vapour density</b>	2.4
<b>Evaporation rate</b>	570

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## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

<b>Ethyl methyl ketone</b>	LD50/oral/rat = 2740 mg/kg LD50/dermal/rabbit = 13 g/kg LC50/inhalation/2 h/mouse = 40 g/m <sup>3</sup>
<b>Toluene</b>	LD50/oral/rat = 5000 mg/kg LD50/dermal/rabbit = 12124 mg/kg LC50/inhalation/8 h/mouse = 5320 ppm

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity effects</b>	No data is available on the product itself.
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## 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Dispose of in accordance with local regulations.
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## 14. TRANSPORT INFORMATION

### ADR/RID

UN-No 1193

Class 3

Packing group II

Hazard ID 33

Proper shipping name ETHYL METHYL KETONE

### IMO

UN-No 1193

Class 3

EmS F-E S-D

Packing group II

Marine pollutant NO

### IATA-DGR

UN-No 1193

Class 3

packaging 307

Packing group II

Sub-risks -

## 15. REGULATORY INFORMATION

<b>Labelling</b>	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.
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<b>Symbol(s):</b>	F - Highly flammable;
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<b>R-phrases(s)</b>	R11 - Highly flammable. R36/37/38 - Irritating to eyes, respiratory system and skin. R66 - Repeated exposure may cause skin dryness or cracking. R67 - Vapours may cause drowsiness and dizziness.
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<b>S-phrase(s)</b>	S16 - Keep away from sources of ignition - No smoking.
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## 16. OTHER INFORMATION

### Text of R phrases mentioned in Section 2

R11 - Highly flammable.  
R20 - Harmful by inhalation.  
R36 - Irritating to eyes.  
R37 - Irritating to respiratory system.  
R38 - Irritating to skin.  
R66 - Repeated exposure may cause skin dryness or cracking.  
R67 - Vapours may cause drowsiness and dizziness.

### 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,