

## SAFETY DATA SHEET

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

Product name: **Tuftec - Activator**  
 Supplier: MMP-International, Division  
 of ITW Ltd.  
 Brunel Close, Park Farm  
 Ind Est,  
 Wellingborough, Northants,  
 NN8 6QX

Emergency telephone number: +44 (0) 1933 670870  
 Fax No: +44 (0) 1933 670800

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

## Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
CYCLOALIPHATIC AMINE			Xn; R20/21/22, C; R34, R43	60-80
ISOPHORONE DIAMINE	2855-13-2	612-067-00-9	Xn; R21/22 C; R34 R43	10-20
BENZYL ALCOHOL	100-51-6	603-057-00-5	Xn; R20/22	25-50

## 3. HAZARDS IDENTIFICATION

Most important hazards: Corrosive.  
 Specific hazards Irritating to eyes, respiratory system and skin.

## 4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.  
 Inhalation: Move to fresh air Consult a physician.  
 Skin contact: Wash off immediately with soap and plenty of water.  
 Eye contact: Wash off immediately with plenty of water for at least 15 minutes Consult a physician.  
 Ingestion: Do not induce vomiting Obtain medical attention.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: dry powder, foam, carbon dioxide (CO<sub>2</sub>).  
 Extinguishing media which must not be used for safety reasons:  
 high volume water jet.  
 Specific hazards: nitrogen oxides (NO<sub>x</sub>) may be formed.  
 Special protective equipment for firefighters: In the event of fire, wear self contained breathing apparatus.  
 Specific methods: Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment  
 Environmental precautions: Do not let product enter drains.  
 Methods for cleaning up: Soak up with inert absorbent material. Shovel into suitable container for disposal.

## 7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Do not smoke, Keep away from food and drink.  
 Storage: Store at room temperature in the original container. Keep container tightly closed.

Product name: **Tuftec - Activator**

REF: M28

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Chemical Name: National occupational exposure limits  
(British COSHH - EH40):

CYCLOALIPHATIC AMINE	no data available
ISOPHORONE DIAMINE	no data available
BENZYL ALCOHOL	no data available

## Engineering measures

- Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection: protective gloves.
- Eye protection: safety glasses with side-shields.
- Skin and body protection: complete suit protecting against chemicals.

Hygiene measures: When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	liquid	Colour:	None	Odour:	ammoniacal
	g/l H <sub>2</sub> O)				
Boiling point/range:	>200	°C			
Flash point:	113	°C			
Melting point/range:	<0	°C			
Autoignition temperature:	435	°C			
Vapour pressure:	<66.6 Pa	mm Hg	( 20 °C)		
Relative density:	- lower	1.0g per c.c			
Water solubility	<5%				

**10. STABILITY AND REACTIVITY**

Materials to avoid: acids.

Hazardous decomposition products: nitrogen oxides (NO<sub>x</sub>) in fire.**11. TOXICOLOGICAL INFORMATION**

Acute toxicity: LD50/oral/rat = &gt;1.14 ml/kg.

Local effects: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Sensitization: Irritating to eyes and skin.

**12. ECOLOGICAL INFORMATION**

Mobility: Do not let product enter drains.

**13. DISPOSAL CONSIDERATIONS**

Waste from residues / unused products:

Contaminated packaging: In accordance with local and national regulations.

European waste Catalogue No: **08 04 99****14. TRANSPORT INFORMATION**

Proper shipping name: Corrosive liquids, n.o.s (CYCLOALIPHATIC AMINE)

UN-No: 1760

ADR/RID Class: 8

HI/UN No: 1760

IMO Class: 8

Packing group : III

Proper shipping name: Corrosive liquids, n.o.s (CYCLOALIPHATIC AMINE)

ICAO Class: 8

UN/ID No: 1760

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Proper shipping name Corrosive liquids, n.o.s (CYCLOALIPHATIC AMINE)

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15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: ISOPHORONE DIAMINE, CYCLOALIPHATIC AMINE, BENZYL ALCOHOL .
- Symbol(s):



Corrosive

R-phrase(s): R20 - Also harmful by inhalation.. R34 - Causes burns.. R43 - May cause sensitization by skin contact.

S-phrase(s): S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.. S28 - After contact with skin, wash immediately with plenty of water. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

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16. OTHER INFORMATION

Recommended use:

Recommended restrictions:

When used in a mixture, read the labels and safety data sheets of all components.

Revision date: 15/07/2002

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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