

## **MATERIAL SAFETY DATA SHEET**

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### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

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<b>PRODUCT NAME</b>	MATRIX FG 90 ACTIVATOR
<b>MSDS REVISION NUMBER</b>	1
<b>MANUFACTURER</b>	Flowcrete SA (Pty.) Ltd. 176 Voortrekker Street Jacobs 4052
<b>TELEPHONE NUMBER</b>	(031) 461 3411
<b>EMERGENCY TELEPHONE NUMBER(S)</b>	Rob Weyers (031) 461 3411
<b>SYNONYMS</b>	None
<b>CHEMICAL FAMILY</b>	Cycloaliphatic polyamine
<b>UN NUMBER</b>	1760
<b>PREPARED</b>	October 2012

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### **SECTION 2 - COMPOSITION**

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<b>HAZARDOUS COMPONENTS</b>	1. Isophorone diamine 2. Benzyl alcohol
<b>HAZARD LABELS</b>	Corrosive
<b>R - PHRASES</b>	R 21 / 22 / 34 / 36 / 38 / 52 / 53
<b>S - PHRASES</b>	S 1 / 2 / 26 / 28 / 36 / 37 / 39 / 45 / 61

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## SECTION 3 - HAZARDS IDENTIFICATION

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<b>FLAMMABILITY</b>	4 - Minimal
<b>HEALTH EFFECTS - EYES</b>	Corrosive to eyes. Can cause irreversible damage. Severe eye irritant.
<b>HEALTH EFFECTS - SKIN</b>	Corrosive to skin. Can cause burns. Severe skin irritant. May cause skin sensitisation.
<b>HEALTH EFFECTS - INGESTION</b>	Harmful if swallowed.
<b>HEALTH EFFECTS - INHALATION</b>	Severe respiratory tract irritant.

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## SECTION 4 - FIRST AID MEASURES

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<b>EYE CONTACT</b>	Hold eye lids apart and immediately flush with plenty of water for at least 15 minutes. Seek medical attention immediately.
<b>SKIN CONTACT</b>	Rinse thoroughly with plenty of soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.
<b>INGESTION</b>	Immediately give plenty of water. Rinse mouth thoroughly with water. Do not induce vomiting. Seek medical attention immediately.
<b>INHALATION</b>	Move to fresh air. If breathing has stopped or is laboured, give assisted respiration. Seek medical attention immediately.

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## SECTION 5 - FIRE FIGHTING MEASURES

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<b>FIRE RATING</b>	4 - Minimal
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	Self-contained breathing apparatus and protective suit.
<b>EXTINGUISHING MEDIA</b>	High volume water jet.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

Wear long sleeved clothing, boots, gloves, and eye protection.

### ENVIRONMENTAL PRECAUTIONS

Contain or dyke the entire perimeter of the contaminated area. Ensure that the spilled material does not enter any drains, surface or ground water.

### SPILL CLEAN-UP PROCEDURE

Working from the outer circumference of the contained spill area, absorb the product with sand or sawdust. Collect and place the contaminated materials in an approved disposal container. Dispose of contaminants in accordance with the Local and National By-laws. Should the spill exceed the in-house capabilities, call a spill responder immediately.

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## SECTION 7 - HANDLING AND STORAGE

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### STORAGE

Keep in cool, dry, ventilated storage and in closed containers.

### HANDLING

Avoid contact with skin and eyes. Do not ingest or inhale. When handling, do not eat, drink or smoke.

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## SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

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### EYE PROTECTION

Wear chemical safety glasses or goggles. Provide readily accessible eye wash stations.

### SKIN PROTECTION

Wear long sleeved clothing, gloves, and boots. Provide readily accessible safety showers.

### RESPIRATORY PROTECTION

Wear suitable breathing apparatus when there is inadequate ventilation.

### INGESTION PROTECTION

Wash before eating, drinking or smoking. Observe the rules of hygiene.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL FORM	Mobile liquid
COLOUR	Pale yellow
ODOUR	Slight
pH	N/A
BOILING POINT	> 200 °C
MELTING POINT	No data
FLASH POINT	> 100 °C
FLAMMABILITY	4 - Minimal
VAPOUR PRESSURE	No data
VISCOSITY	30 s FC4
SPECIFIC GRAVITY	1.00
SOLUBILITY IN WATER	Slight

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## SECTION 10 - STABILITY AND REACTIVITY

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CHEMICAL STABILITY	Stable
CONDITIONS TO AVOID	Excessive heating over long periods of time degrades the product.
INCOMPATIBLE MATERIALS	Strong oxidising substances Strong acids Strong alkalis
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides Nitrogen oxides Burning produces obnoxious and toxic fumes.

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## SECTION 11 - TOXICOLOGICAL PROPERTIES

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ACUTE ORAL TOXICITY (LD50, RAT)	> 1000 mg / kg
ACUTE DERMAL TOXICITY (LD50, RABBIT)	No data
ACUTE INHALATION TOXICITY (LD50, RAT)	No data
EYE AND SKIN CONTACT	Corrosive to eyes and skin. Severe eye and skin irritant. Repeated exposure may cause skin sensitisation.
CARCINOGENICITY	Not a known carcinogen.

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## SECTION 12 - ECOLOGICAL INFORMATION

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Material is expected to cause long term adverse effects in the aquatic environment.

This product is not readily biodegradable.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL

Use a reputable waste disposal contractor. Waste disposal measures must comply with all Local and National By-laws.

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## SECTION 14 - TRANSPORT INFORMATION

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<b>UN NUMBER</b>	1760
<b>IMO SHIPPING NAME</b>	Corrosive liquid, N.O.S.
<b>IMO CLASS AND DANGER GROUP</b>	Class 8, Danger Group III
<b>IMO SUBSIDIARY RISK(S)</b>	None

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## SECTION 15 - REGULATORY INFORMATION

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### RISK (R) PHRASES

R 21 / 22 - Harmful in contact with skin and if swallowed.  
R 34 - Causes burns.  
R 36 / 38 - Irritating to eyes and skin.  
R 43 - May cause sensitisation by skin contact.  
R 52 / 53 - Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### SAFETY (S) PHRASES

S 1 / 2 - Keep locked up and out of reach of children.  
S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 28 - After contact with skin, wash immediately with plenty of water and soap.  
S 36 / 37 / 39 - Wear suitable protective clothing, gloves and eye/face protection.  
S 45 - In case of accident or if you feel unwell, seek medical advice immediately.  
S 61 - Avoid release to the environment. Refer to special instruction / material safety data sheet.

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## SECTION 16 - OTHER INFORMATION

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Alert workers to this hazardous potential and ensure precautions are taken. In cases of any discomfort always seek medical advice.

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All information is given in good faith but without guarantee in respect of accuracy. No responsibility is accepted for error of omission or the consequences thereof.