



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	IVOBAK ACTIVATOR
MSDS REVISION NUMBER	1
MANUFACTURER	Flowcrete SA (Pty.) Ltd. 176 Voortrekker Street Jacobs 4052
TELEPHONE NUMBER	(031) 461 3411
EMERGENCY TELEPHONE NUMBER(S)	Rob Weyers (031) 461 3411
SYNONYMS	None
CHEMICAL FAMILY	Cycloaliphatic polyamine
UN NUMBER	1760
PREPARED	01 August 2012

SECTION 2 - COMPOSITION

HAZARDOUS COMPONENTS	1. Isophorone diamine 2. Benzyl alcohol 3. Diethylene triamine
HAZARD LABELS	Corrosive
R - PHRASES	R 21 / 22 / 34 / 36 / 38 / 52 / 53
S - PHRASES	S 1 / 2 / 26 / 28 / 36 / 37 / 39 / 45 / 61

SECTION 3 - HAZARDS IDENTIFICATION

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

SECTION 4 - FIRST AID MEASURES

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

SECTION 5 - FIRE FIGHTING MEASURES

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

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 - HANDLING AND STORAGE

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.

SECTION 8 - PERSONAL PROTECTION / EXPOSURE CONTROLS

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Mobile liquid
COLOUR	Pale brown
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	60 – 85 s FC4
SPECIFIC GRAVITY	1.00
SOLUBILITY IN WATER	Slight

SECTION 10 - STABILITY AND REACTIVITY

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.

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)	> 1000 mg / kg
ACUTE DERMAL TOXICITY (LD50, RABBIT)	No data
ACUTE INHALATION TOXICITY (LC50, 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.

SECTION 12 - ECOLOGICAL INFORMATION

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

This product is not readily biodegradable.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

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

SECTION 14 - TRANSPORT INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

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.

SECTION 16 - OTHER INFORMATION

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

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.