

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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| PRODUCT NAME | IVOMASTIC PRIMER 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 | Solvent based epoxy mixture |
| UN NUMBER | 1866 |
| PREPARED | January 2011 |

SECTION 2 - COMPOSITION

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|-----------------------------|--|
| HAZARDOUS COMPONENTS | 1. Amine adduct 2. Benzyl Alcohol 3. Xylene 4. Isobutyl Alcohol |
| R - PHRASES | R 10 / 20 / 21 / 22 / 34 / 36 / 38 / 43 |
| S - PHRASES | S 2 / 23 / 24 / 26 / 36 / 37 / 38 / 39 / 45 / 61 |

SECTION 3 - HAZARDS IDENTIFICATION

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|------------------------------------|---|
| FLAMMABILITY | 2 - Moderate |
| HEALTH EFFECTS - EYES | Severe eye irritant. |
| HEALTH EFFECTS - SKIN | Skin irritant. May cause skin sensitisation. |
| HEALTH EFFECTS - INGESTION | Harmful if swallowed. |
| HEALTH EFFECTS - INHALATION | Respiratory tract irritant. |

SECTION 4 - FIRST AID MEASURES

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| 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

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|--------------------------------------|--|
| FIRE RATING | 2 - Moderate |
| PERSONAL PROTECTIVE EQUIPMENT | Self-contained breathing apparatus and protective suit. |
| EXTINGUISHING MEDIA | Water spray Carbon dioxide Alcohol resistant foam Dry powders |

SPECIAL FIRE FIGHTING PROCEDURE

Use water to keep exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

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. Store away from all ignition sources. Avoid sparking conditions. Ground all transfer equipment.

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

Use in a well ventilated area. 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

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|---------------------|----------------------|
| PHYSICAL FORM | Mobile liquid |
| COLOUR | Pale yellow |
| ODOUR | Amine |
| pH | N/A |
| BOILING POINT | No data |
| MELTING POINT | No data |
| FLASH POINT | 40 °C |
| FLAMMABILITY | 2 - Moderate |
| VAPOUR PRESSURE | No data |
| VISCOSITY | 140 – 160 cps |
| SPECIFIC GRAVITY | 0.98 – 1.00 |
| SOLUBILITY IN WATER | Not soluble in water |

SECTION 10 - STABILITY AND REACTIVITY

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|----------------------------------|---|
| CHEMICAL STABILITY | Stable under recommended storage and handling conditions. |
| CONDITIONS TO AVOID | Heat, sparks, flame and build up of static electricity. |
| INCOMPATIBLE MATERIALS | Strong oxidising substances Strong acids Strong Alkalis |
| HAZARDOUS DECOMPOSITION PRODUCTS | Carbon dioxide Carbon monoxide Oxides of nitrogen |

SECTION 11 - TOXICOLOGICAL PROPERTIES

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|--------------------------------------|---------|
| ACUTE ORAL TOXICITY (LD50, RAT) | No data |
| ACUTE DERMAL TOXICITY (LD50, RABBIT) | No data |

ACUTE INHALATION TOXICITY (LD50, RAT)

No data

EYE AND SKIN CONTACT

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

1866

IMO SHIPPING NAME

Resin solution, Flammable, N.O.S.

IMO CLASS AND DANGER GROUP

Class 3, Danger Group III

IMO SUBSIDIARY RISK(S)

None

SECTION 15 - REGULATORY INFORMATION

RISK (R) PHRASES

R 10 - Flammable
R 20 - Harmful by inhalation.
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.

SAFETY (S) PHRASES

S 2 - Keep out of reach of children.
S 23 - Do not breathe vapour or spray.
S 24 - Avoid contact with skin.
S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 38 - In case of insufficient ventilation, wear suitable respiratory equipment. Use only in well ventilated areas.
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.