



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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| PRODUCT NAME | IVORY 400 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 | Aliphatic polyisocyanate mixture |
| UN NUMBER | 1866 |
| PREPARED | January 2014 |

SECTION 2 - COMPOSITION

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|-----------------------------|---|
| HAZARDOUS COMPONENTS | 1. Aliphatic polyisocyanate 2. Ethylene glycol mono ethyl ether acetate 3. Xylene |
| R - PHRASES | R 10 / 20 / 21 / 22 / 36 / 38 / 43 / 52 / 53 |
| S - PHRASES | S 1 / 2 / 26 / 28 / 36 / 37 / 39 / 45 / 51 / 61 |

SECTION 3 - HAZARDS IDENTIFICATION

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| FLAMMABILITY | 1 - Serious |
| HEALTH EFFECTS - EYES | Severe eye irritant. |
| HEALTH EFFECTS - SKIN | Severe skin irritant. May cause skin sensitisation. |
| HEALTH EFFECTS - INGESTION | Harmful if swallowed. Contains isocyanates . See Section 15 for information. |
| HEALTH EFFECTS - INHALATION | Severe 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 | 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 | 1 - Serious |
| PERSONAL PROTECTIVE EQUIPMENT | Self-contained breathing apparatus and protective suit. |



EXTINGUISHING MEDIA

Water spray for large fires.
Carbon dioxide
Foam
Dry powder

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. Ensure adequate ventilation or exhaust ventilation in the working area. Exhaust ventilation is required if the product is sprayed.

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

PHYSICAL FORM

Mobile liquid

COLOUR

Clear to pale yellow

ODOUR

Smell of solvent

pH

N/A

BOILING POINT

No data

MELTING POINT

No data

FLASH POINT

< 23°C

FLAMMABILITY

1 - Serious

VAPOUR PRESSURE

No data

SPECIFIC GRAVITY

1.0

SOLUBILITY IN WATER

Not soluble in water

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable

CONDITIONS TO AVOID

Heat, sparks, flame and build up of static electricity.

HAZARDOUS DECOMPOSITION PRODUCTS

No hazardous decomposition products expected when stored and handled correctly.

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 (LC50, RAT) | No data |
| EYE AND SKIN CONTACT | Severe eye and skin irritant. Repeated exposure may cause skin sensitisation. |

SECTION 12 - ECOLOGICAL INFORMATION

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

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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|----------------------------|-----------------------------------|
| 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 / 21 / 22 - Harmful by inhalation, in contact with skin and if swallowed.
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 24 - Avoid contact with skin.
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 51 - Use only in well ventilated areas.
S 61 - Avoid release to the environment. Refer to special instruction / material safety data sheet.

Paints containing isocyanates may have an irritant effect on mucous membranes, especially on breathing organs, and may cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling paints containing isocyanates all precautions required for solvent- containing paints must be followed. Vapour and spray mist in particular should not be inhaled. Allergics and asthmatics as well as people prone to respiratory ailments should not work with isocyanate containing paints. Any existing national regulations on the handling of isocyanates and solvents must be observed.

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.