



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	FLOWSHIELD ESD PRIMER - ACTIVATOR Water Based Epoxy Enamel
MSDS REVISION NUMBER	1
MANUFACTURER	Flowcrete S.A. (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	Polyamide mixture
UN NUMBER	3082
PREPARED	28 June 2011

SECTION 2 - COMPOSITION

HAZARDOUS COMPONENTS	1. < 5% Triethylene tetramine
R - PHRASES	R 36 / 38
S - PHRASES	S 26

SECTION 3 - HAZARDS IDENTIFICATION

FLAMMABILITY	4 - Minimal
HEALTH EFFECTS - EYES	Moderate eye irritant.
HEALTH EFFECTS - SKIN	Moderate skin irritant.
HEALTH EFFECTS - INGESTION	Harmful if swallowed.
HEALTH EFFECTS - INHALATION	Mild 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	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
EXTINGUISHING MEDIA	Carbon dioxide Water
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear boots, gloves, long sleeved overalls and self-contained breathing apparatus.
REACTIVITY	4 - Minimal

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

No respiratory protection is required under normal conditions. 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	Pigmented
ODOUR	Ammoniacal
pH	8.0 – 9.0
BOILING POINT	No data
MELTING POINT	No data
FLASH POINT	> 100°C
FLAMMABILITY	4 – Minimal
VAPOUR PRESSURE	No data
VISCOSITY	95 KU / FP
SPECIFIC GRAVITY	1.050
SOLUBILITY IN WATER	Soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable
CONDITIONS TO AVOID	None. Stable under recommended storage and handling conditions.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide Carbon dioxide Irritating and toxic fumes at elevated temperatures.

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)	> 9 500 mg / kg
ACUTE DERMAL TOXICITY (LD50, RABBIT)	No data
ACUTE INHALATION TOXICITY (LC50, RAT)	Vapours are unlikely due to physical properties.
EYE AND SKIN CONTACT	Mild eye and skin irritant.
CARCINOGENICITY	Not a known carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

No data

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

3082

IMO SHIPPING NAME

Environmentally hazardous substance, Liquid, N.O.S

IMO CLASS AND DANGER GROUP

Class 9, Group III

IMO SUBSIDIARY RISK(S)

None

SECTION 15 - REGULATORY INFORMATION

RISK (R) PHRASES

R 36 / 38 – Irritating to eyes and skin.

SAFETY (S) PHRASES

S 26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

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.