



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	IVORY 319 HI BOND EPOXY High performance impact modified epoxy adhesive.
MSDS REVISION NUMBER	0
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	Bisphenol F epoxy resin blend
UN NUMBER	3082
PREPARED	January 2011

SECTION 2 - COMPOSITION

HAZARDOUS COMPONENTS	1. 30 – 60 % Bisphenol F type epoxy resin 2. < 10 % Nonyl phenol 3. 30 – 60 % Silica Flour
R - PHRASES	R 36 / 38 / 43 / 51 / 53
S - PHRASES	S 28 / 37 / 39 / 61

SECTION 3 - HAZARDS IDENTIFICATION

FLAMMABILITY	4 - Minimal
HEALTH EFFECTS - EYES	Eye irritant.
HEALTH EFFECTS - SKIN	Skin irritant. May cause skin sensitisation.
HEALTH EFFECTS - INGESTION	Harmful if swallowed.
HEALTH EFFECTS - INHALATION	Vapours are unlikely due to physical properties.

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	Foam Dry powder Carbon dioxide Water spray jet
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	Paste
COLOUR	Light brown
ODOUR	Faint epoxy
pH	N/A
BOILING POINT	> 200 °C
MELTING POINT	No data
FLASH POINT	> 100 °C
FLAMMABILITY	4 - Minimal
VAPOUR PRESSURE	No data
VISCOSITY	240 – 290 / 0 / 5
SPECIFIC GRAVITY	1.530 – 1.600
SOLUBILITY IN WATER	Practically insoluble in water.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable
CONDITIONS TO AVOID	Excessive heating over long periods of time degrades the product causing discolouration.
INCOMPATIBLE MATERIALS	Strong oxidising substances Strong acids Strong alkalis Amines
HAZARDOUS DECOMPOSITION PRODUCTS	In a fire, toxic fumes may be generated.

SECTION 11 - TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT)	No data
ACUTE DERMAL TOXICITY (LD50, RABBIT)	No data
ACUTE INHALATION TOXICITY (LD50, RAT)	Vapours are unlikely due to physical properties.
EYE AND SKIN CONTACT	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	3082
IMO SHIPPING NAME	Environmentally hazardous substance, N.O.S.
IMO CLASS AND DANGER GROUP	Class 9, Danger Group III
IMO SUBSIDIARY RISK(S)	None

SECTION 15 - REGULATORY INFORMATION

RISK (R) PHRASES	R 36 / 38 - Irritating to eyes and skin. R 43 - May cause sensitisation by skin contact. R 51 / 53 - Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
SAFETY (S) PHRASES	S 28 - After contact with skin, wash immediately with plenty of water and soap. S 37 / 39 - Wear suitable gloves and eye/face protection. S61 - 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.