

## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

<b>PRODUCT NAME</b>	FLOWCOAT 304 ACTIVATOR Solvent based epoxy enamel
<b>MSDS REVISION NUMBER</b>	1
<b>MANUFACTURER</b>	Flowcrete SA (Pty.) Ltd. 176 Voortrekker Street Jacobs 4052
<b>TELEPHONE NUMBER</b>	(031) 461 3411
<b>EMERGENCY TELEPHONE NUMBER(S)</b>	Rob Weyers (031) 461 3411
<b>SYNONYMS</b>	None
<b>CHEMICAL FAMILY</b>	Modified polyamide mixture
<b>UN NUMBER</b>	1866
<b>PREPARED</b>	January 2012

### **SECTION 2 - COMPOSITION**

<b>HAZARDOUS COMPONENTS</b>	1. Triethylenetetramine 2. Benzyl alcohol 3. Xylene
<b>R - PHRASES</b>	R 21 / 22 / 36 / 38 / 52 / 53
<b>S - PHRASES</b>	S 1 / 2 / 26 / 28 / 36 / 37 / 39 / 45 / 61

---

## SECTION 3 - HAZARDS IDENTIFICATION

---

<b>FLAMMABILITY</b>	1 - Serious
<b>HEALTH EFFECTS - EYES</b>	Corrosive to eyes. Severe eye irritant.
<b>HEALTH EFFECTS - SKIN</b>	Corrosive to skin. Severe skin irritant. May cause skin sensitisation.
<b>HEALTH EFFECTS - INGESTION</b>	Harmful if swallowed.
<b>HEALTH EFFECTS - INHALATION</b>	Severe respiratory tract irritant.

---

## SECTION 4 - FIRST AID MEASURES

---

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

---

## SECTION 5 - FIRE FIGHTING MEASURES

---

<b>FIRE RATING</b>	1 - Serious
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	Self-contained breathing apparatus and protective suit.



#### **EXTINGUISHING MEDIA**

Water fog  
Carbon dioxide  
Foam  
Dry chemical

#### **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

---

### PHYSICAL FORM

Mobile liquid

### COLOUR

Amber

### ODOUR

Ammoniacal

### pH

N/A

### BOILING POINT

No data

### MELTING POINT

No data

### FLASH POINT

< 23°C

### FLAMMABILITY

1 - Serious

### VAPOUR PRESSURE

No data

### VISCOSITY

11 – 12 s FC4

### SPECIFIC GRAVITY

0.93

### 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.

### INCOMPATIBLE MATERIALS

Strong oxidising substances  
Active metals

## HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides  
Nitrogen oxides  
Ammonia  
Burning produces obnoxious and toxic fumes.

---

## SECTION 11 - TOXICOLOGICAL PROPERTIES

---

### 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

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	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 21 / 22 - Harmful 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 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.