

## Safety Data Sheet

# prepared to UN GHS Revision 3

## 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier 627ACT Revision Date: 16/04/2018

Hardener for 2 components coatings - Industrial use.

16/06/2014

Product Name: Epoxy Enamel Activator Supercedes Date:

1.2 Relevant identified uses of the substance or mixture and uses

advised against

1.3 Details of the supplier of the safety data sheet

Importer: Importer

Manufacturer: StonCor Africa (Pty.) Ltd.

8 Cresset Road

Midrand Industrial Park, Chloorkop

P.O. Box 2205 2001, Johannesburg South Africa

South Africa

Regulatory / Technical Information:

+27 11 254 5500

Datasheet Produced by: Maritz, Rory - ehs@stoncor.com

1.4 Emergency telephone number: CHEMTREC 1-800-424-9300 (Inside US)

CHEMTREC +1 703 5273887 (Outside US)

### 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 4
Hazardous to the aquatic environment, Chronic, category 2
Flammable Liquid, category 3
Skin Corrosion, category 1
Skin Sensitizer, category 1

### 2.2 Label elements

### Symbol(s) of Product



### Signal Word

Danger

#### Named Chemicals on Label

Ethylbenzene, Xylene, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

#### **HAZARD STATEMENTS**

Flammable Liquid, category 3 Skin Corrosion, category 1 Skin Sensitizer, category 1 Acute Toxicity, Inhalation, category 4 Hazardous to the aquatic environment, Chronic, category 2 PRECAUTION PHRASES	H226 H314-1 H317 H332 H411	Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled. Toxic to aquatic life with long lasting effects.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/
	F200	face protection.
	P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P3	IF IN EYES: Rinse cautiously with water for several minutes.
	38	Remove contact lenses, if present and easy to do so. Continue rinsing.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.

closed.

Store in a well-ventilated place. Keep container tightly

### 2.3 Other hazards

No Information

### Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

P403+233

# 3. Composition/Information On Ingredients

#### 3.2 **Mixtures**

### **Hazardous Ingredients**

CAS-No.	<u>Chemical Name</u>	<u>%</u>
1330-20-7	Xylene	25-50
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25-50
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	10-25
107-98-2	1-methoxypropan-2-ol	2.5-10
71-36-3	Butan-1-ol	2.5-10
100-41-4	Ethylbenzene	2.5-10
78-83-1	2-methylpropan-1-ol	1.0-2.5

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
1330-20-7	GHS02-GHS07	H226-315-332	0
25068-38-6	GHS07-GHS09	H315-317-319-411	0
2855-13-2	GHS05-GHS07	H302-312-314-317-412	0
107-98-2	GHS02-GHS07	H226-336	0
71-36-3	GHS02-GHS05-GHS07	H226-315-318-335-336	0
100-41-4	GHS02-GHS07-GHS08	H225-304-315-319-332-373	0
78-83-1	GHS02-GHS05-GHS07	H226-315-318-335-336	0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

# 4. First-aid Measures

#### 4.1 **Description of First Aid Measures**

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off with warm water and soap. Wash off immediately with

soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes

**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

Harmful by inhalation. Do not ingest. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## 5. Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

### 5.2 Special hazards arising from the substance or mixture

Highly flammable.

### 5.3 Advice for firefighters

Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

# 7. Handling and Storage

### 7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Keep away from sources of ignition - No smoking.

PROTECTION AND HYGIENE MEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Heat, flames and sparks. Direct sources of heat.

**STORAGE CONDITIONS:** Store in original container. Keep in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

### 7.3 Specific end use(s)

No specific advice for end use available.

### 8. Exposure Controls/Personal Protection

#### 8.1 Control parameters

# Ingredients with Occupational Exposure Limits

(EU)

<u>Name</u>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Xylene	1330-20-7	50	100	442	221
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
3-Aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2				
1-methoxypropan-2-ol	107-98-2	100	150	568	375
Butan-1-ol	71-36-3				
Ethylbenzene	100-41-4	100	200	884	442
2-methylpropan-1-ol	78-83-1				
<u>Name</u>	CAS-No.	OEL Note			
Xylene	1330-20-7	SK			
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
3-Aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2				
1-methoxypropan-2-ol	107-98-2	SKIN			
Butan-1-ol	71-36-3				
Ethylbenzene	100-41-4	SKIN			
2-methylpropan-1-ol	78-83-1				

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

#### 8.2 Exposure controls

**Personal Protection** 

**RESPIRATORY PROTECTION:** Respirator with a vapor filter.

EYE PROTECTION: Tightly fitting safety goggles.

**HAND PROTECTION:** Rubber or plastic gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use.

**OTHER PROTECTIVE EQUIPMENT:** No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas

# 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance: Clear
Physical State Liquid
Odor Amine

Odor threshold

PH

Not determined

Not determined

Not determined

Not determined

Boiling point/range (°C) 80 - N.D.

Flash Point, (°C) 25

Evaporation rate Not determined

Flammability (solid, gas) Liquid

Upper/lower flammability or explosive 1.9 - 12.3

limits

Vapour Pressure

Vapour density

Not determined

Relative density

Not determined

Not Soluble

Partition coefficient: n-octanol/water

Not determined

Auto-ignition temperature (°C) 343

 Decomposition temperature (°C)
 Not determined

 Viscosity
 Not determined

 Explosive properties
 Not determined

 Oxidising properties
 Not determined

9.2 Other information

VOC Content g/l: 498

Calculated grams of VOC per liter of coating product as applied.

Specific Gravity (g/cm3) 0.943

### 10. Stability and Reactivity

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Heat, flames and sparks. Direct sources of heat.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

**Acute Toxicity:** 

Oral LD50: Not Determined Inhalation LC50: Not Determined

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

**Toxicity for reproduction:** No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
1330-20-7	Xylene	3523 mg/kg, rat, oral	12126 mg/kg, rabbitt	5000 ppm/4 hrs rat, inhalation
25068-38-6	Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	>2000 mg/kg, rat, oral	>2000 mg/kg, rat	
2855-13-2	3-Aminomethyl-3,5,5- trimethylcyclohexylamine	500 mg/kg oral		
107-98-2	1-methoxypropan-2-ol	5180 mg/kg, oral, rat		10000 ppm/4hrs rat, inhalation
71-36-3	Butan-1-ol	2500 mg/kg rat, oral		800 ppm / 4hrs rat, inhalation
100-41-4	Ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h

#### **Additional Information:**

No Information

## 12. Ecological Information

#### 12.1 Toxicity:

EC50 48hr (Daphnia):No informationIC50 72hr (Algae):No informationLC50 96hr (fish):No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB

assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

#### **12.6** Other adverse effects: No information

CAS-No.	Chemical Name	EC50 48hr	IC50 72hr	LC50 96hr
1330-20-7	Xylene	3.82 mg/l	No information	24-30 mg/l, minnow
25068-38-6	Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	No information	No information	
2855-13-2	3-Aminomethyl-3,5,5- trimethylcyclohexylamine	No information	No information	
107-98-2	1-methoxypropan-2-ol	No information	No information	
71-36-3	Butan-1-ol	No information	No information	
100-41-4	Ethylbenzene	1.37 mg/l	No information	32 mg/l (Bluegill)
78-83-1	2-methylpropan-1-ol	No information	No information	

# 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport Information

14.1	UN number	1263
17.1	OI4 HUILIDOI	1200

14.2 UN proper shipping name Paint-related materials including paint, lacquer, enamel, stain, shellac

solutions, varnish, polish, liquid filler, and liquid lacquer base, or paint related material including paint thinning, drying, removing, or reducing

compound

Technical name Not applicable

14.3 Transport hazard class(es) 3

Subsidiary shipping hazard Not applicable

14.4 Packing group

14.5 Environmental hazards
14.6 Special precautions for user
EmS-No.:
Not applicable
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

### 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

**National Regulations:** 

Denmark Product Registration Number:

Danish MAL Code:

Not available

Danish MAL Code - Mixture:

Not available

Sweden Product Registration Number:

Not available

Norway Product Registration Number:

Not available

WGK Class:

Not available

#### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### 16. Other Information

### Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Reasons for revision

Substance Chemical Name Changed Substance Hazard Threshold % Changed Composition Information Changed

Substance and/or Product Properties Changed in Section(s):

02 - Hazard Identification

08 - Exposure Controls/Personal Protection

09 - Physical and Chemical Properties

11 - Toxicological Information

12 - Ecological Information

14 - Transportation Information

15 - Regulatory Information

Revision Statement(s) Changed

### List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark; European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP); EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

#### Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation EC European Commission

EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration
IC50 Half maximal inhibitory concentration
PBT Persistent bioaccumulative toxic chemical
vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container RTI Respiratory Tract Irritation

NE Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.