

# Safety Data Sheet

# prepared to UN GHS Revision 3

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

600 S/T/M ACT **Revision Date:** 14/01/2016 **Product Identifier** 

Stonchem 600 series Activator **Product Name:** 

(Saturant/Mortar/Topcoat)

Relevant identified uses of the substance or mixture and uses

advised against

Hardener for 2 components coatings - Industrial use.

Supercedes Date:

**New SDS** 

#### Details of the supplier of the safety data sheet 1.3

Importer: None

StonCor Africa (Pty.) Ltd. Manufacturer:

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Midrand Industrial Park, Chloorkop

P.O. Box 2205 2001, Johannesburg South Africa

Regulatory / Technical Information:

+27 11 254 5500

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

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

CHEMTREC +1 703 5273887 (Outside US)

# 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 2 Reproductive Toxicity, category 2 Skin Corrosion, category 1 Skin Sensitizer, category 1

#### 2.2 Label elements

### Symbol(s) of Product



### Signal Word

Danger

### Named Chemicals on Label

4,4'-isopropylidenediphenol, Diethylenetriamine, Tetraethylenepentamine, 3-aminopropyltriethoxysilane

### **HAZARD STATEMENTS**

	11000 0	E - 170 1 1 1
Acute Toxicity, Inhalation, category 2	H330-2	Fatal if inhaled.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
PRECAUTION PHRASES		
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P270	Do no eat, drink or smoke when using this product.
	P280	Wear protective gloves/protective clothing/eye protection/
		face protection.
	P284	Wear respiratory protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or
		doctor/physician.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P308+P313	IF exposed or concerned: Get medical advice/attention
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	P403+233	Store in a well-ventilated place. Keep container tightly

closed.

### 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.

# 3. Composition/Information On Ingredients

### 3.2 Mixtures

### **Hazardous Ingredients**

CAS-No.	Chemical Name	<u>%</u>
112-57-2	Tetraethylenepentamine	10-25
111-40-0	Diethylenetriamine	2.5-10
919-30-2	3-aminopropyltriethoxysilane	2.5-10
80-05-7	4,4'-isopropylidenediphenol	2.5-10
64-17-5	Ethanol	<0.1

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
112-57-2	GHS05-GHS07	H302-312-314-317	0
111-40-0	GHS05-GHS06	H302-312-314-317-330-335	0
919-30-2	GHS05-GHS07	H302-314	0
80-05-7	GHS05-GHS07-GHS08	H317-318-335-361	0
64-17-5	GHS02-GHS07	H225-319	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 immediately with soap and plenty of water while removing all contaminated clothes 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. 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

Causes severe burns. Harmful in contact with skin and if swallowed. Irritating to eyes and respiratory system.

### 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

No Information

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. High volume water jet. 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.

### Accidental Release Measures

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

Ensure adequate ventilation. Use personal protective equipment.

### 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:** Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist.

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: Direct sources of heat.

**STORAGE CONDITIONS:** Store in original container. 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)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/ m3	LTEL mg/ m3	OEL Note
Tetraethylenepentamine	112-57-2					
Diethylenetriamine	111-40-0					
3-aminopropyltriethoxysilane	919-30-2					
4,4'-isopropylidenediphenol	80-05-7					
Ethanol	64-17-5					

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

### 8.2 Exposure controls

### **Personal Protection**

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. Respirator with filter for organic vapor.

EYE PROTECTION: Tightly fitting safety goggles. Face-shield.

**HAND PROTECTION:** Butyl or nitrile rubber glovesTake 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. Rubber or plastic apron.

**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: Amber Viscous liquid

Physical State Liquid

Odor Ammoniacal
Odor threshold Not determined
pH Not determined
Melting point / freezing point (°C) Not determined

Boiling point/range (°C) 64 - N.D.

Flash Point, (°C) 94

Evaporation rate Not determined
Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 999 - 0

limits

Vapour PressureNot determinedVapour densityNot determinedRelative density0.98 - 1.02

Solubility in / Miscibility with water NIL

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Decomposition temperature (°C)

Not determined

Viscosity

Not determined

Explosive properties

Not determined

Oxidising properties

Not determined

9.2 Other information

VOC Content g/l:

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

Specific Gravity (g/cm3)

1.029

# 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

# 10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur.

#### 10.4 Conditions to avoid

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: No information available.

Inhalation LC50: No information available.

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
111-40-0	Diethylenetriamine	1080 mg/kg, oral, rat	1090 mg/kg	10 mg/L / 1 hour, inh, rat
80-05-7	4,4'-isopropylidenediphenol	5000 mg/kg, oral, rat	3000 mg/kg, oral, rabbit	
64-17-5	Ethanol	7060 mg/kg, oral, rat		20000 ppm/10 hrs, rat, inhalation

### 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

assessment:

Results of PBT and vPvB

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

12.6 Other adverse effects: No information

CAS-No.	<u>Chemical Name</u>	EC50 48hr	IC50 72hr	LC50 96hr
112-57-2	Tetraethylenepentamine	No information	No information	Not available
111-40-0	Diethylenetriamine	780 mg/l	No information	430 mg/l
919-30-2	3-aminopropyltriethoxysilane	No information	No information	Not available
80-05-7	4,4'-isopropylidenediphenol	10.2 mg/l	No information	205 mg/l
64-17-5	Ethanol	No information	No information	Not available

# 13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport Information

**14.1 UN number** UN 2735

14.2 UN proper shipping name POLYAMINES, LIQUID, CORROSIVE, n.o.s. (CONTAINS 4,4'-

METHYLENEBICYCLOHEXAN, ISOPHORONEDIAMINE)

Technical name Not applicable

14.3 Transport hazard class(es) 8

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 Not applicable of MARPOL 73/78 and the IBC code

15. Regulatory Information

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

#### National Regulations:

Denmark Product Registration Number: Not available

Danish MAL Code:Not availableSweden 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.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
<b>⊔</b> 361	Suspected of damaging fortility or the unborn of

H361 Suspected of damaging fertility or the unborn child.

#### Reasons for revision

This Safety Data Sheet (SDS) has been revised to meet updated national hazard communication standards which have adopted the provisions of the UN GHS system. There have been both formatting and content changes based on the GHS classification (if applicable), Please review each section of the SDS for specific changes. This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

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.