

Safety Data Sheet

prepared to UN GHS Revision 3

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

1.1 Product Identifier IIN-FLOWTEXCR-AC Revision Date: 09/05/2022

Product Name: FLOWTEX CR ACT Supersedes Date: New SDS

1.2 Relevant identified uses of the

substance or mixture and uses

advised against

Hardener for 2 components coatings - Industrial use.

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

Regulatory / Technical Information:

+27 11 254 5500

Datasheet Produced by: Chonco, Cebolonkosi - ehs@stoncor.com

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

CHEMTREC +1 703 5273887 (Outside US)

Giftinformasjonen: +47 22 59 13 00

2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Dermal, category 4
Acute Toxicity, Inhalation, category 4
Acute Toxicity, Oral, category 4
Hazardous to the aquatic environment, Chronic, category 3
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-tert-Butylphenol, Benzyl alcohol, benzene-1, 3-dimethanamine, 4,4'-methylenebicyclohexanamine, 01,5-pentanediamine, 2-methyl-, methyleneoxide, polymer with benzenamine, hydrogenated

HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Acute Toxicity, Dermal, category 4	H312	Harmful in contact with skin.
Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful to aquatic life with long lasting effects.

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.
P273	Avoid release to the environment.
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.
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+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
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.
P308+313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P352	Wash with plenty of soap and water.
P363	Wash contaminated clothing before reuse.

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
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Name According to EEC Benzyl alcohol	EINEC No. 202-859-9	<u>CAS-No.</u> 100-51-6	<u>%</u> 25 - <50	Classifications H302-312-319-332
methyleneoxide, polymer with benzenamine, hydrogenated	603-894-6	135108-88-2	25 - <50	H302-312-314
4,4'- methylenebicyclohexan amine	217-168-8	1761-71-3	2.5 - <10	H302-314-317-373-4 11
4-tert-Butylphenol	202-679-0	98-54-4	2.5 - <10	H315-318-335-361-4 11
benzene-1, 3- dimethanamine	216-032-5	1477-55-0	2.5 - <10	H302-314-317-331-4 12
01,5-pentanediamine, 2-methyl-	239-556-6	15520-10-2	1.0 - <2.5	H302-314-332

CAS-No.	M-Factors
100-51-6	0
135108-88-2	0
1761-71-3	0
98-54-4	0
1477-55-0	0
15520-10-2	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
Benzyl alcohol	100-51-6				
methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2				
4,4'-methylenebicyclohexanamine	1761-71-3				
4-tert-Butylphenol	98-54-4				
benzene-1, 3-dimethanamine	1477-55-0				
01,5-pentanediamine, 2-methyl-	15520-10-2				
<u>Name</u>	CAS-No.	OEL Note			
Benzyl alcohol	100-51-6				
methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2				
4,4'-methylenebicyclohexanamine	1761-71-3				
4-tert-Butylphenol	98-54-4				
benzene-1, 3-dimethanamine	1477-55-0				
01,5-pentanediamine, 2-methyl-	15520-10-2				

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: Impervious 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: VISCOUS LIQUID

Physical State Liquid
Odor AMINE

Odor threshold Not determined pH Not determined

Melting point / freezing point (°C)

Not determined

Boiling point/range (°C)

205 - N.D.

Flash Point, (°C) 999

Evaporation rate Not determined

Flammability (solid, gas) Not determined

Upper/lower flammability or explosive Not determined

limits

 Vapour Pressure
 Not determined

 Vapour density
 Not determined

 Relative density
 Not determined

Solubility in / Miscibility with water PARTIALLY MISCIBLE

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: Not determined

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

Specific Gravity (g/cm3)

1.055

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: No information available. Inhalation LC50: No information available.

No information available. Irritation:

No information available. Corrosivity:

Sensitization: No information available.

No information available. Repeated dose toxicity:

No information available. Carcinogenicity:

Mutagenicity: No information available.

No information available. Toxicity for reproduction:

STOT-single exposure: No information available. STOT-repeated exposure:

No information available. Aspiration hazard:

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:

No information available.

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
100-51-6	Benzyl alcohol	1230 mg/kg, rat	2000 mg/kg, rabbit	1000 ppm, rat	0.000	0.000
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated	367 mg/kg, oral, rat			0.000	0.000
1761-71-3	4,4'- methylenebicyclohexanamine	1200 mg/kg oral, rat	2110 mg/kg, rat		0.000	0.000
98-54-4	4-tert-Butylphenol	>2000 mg/kg	5600 mg/kg		0.000	0.000
1477-55-0	benzene-1, 3-dimethanamine	1514 mg/kg, oral			0.000	0.000

Additional Information:

No Information

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information No information IC50 72hr (Algae): LC50 96hr (fish): No information

No information 12.2 Persistence and degradability:

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

assessment:

12.6 Other adverse effects: No information

CAS-No.	Chemical Name	EC50 48hr	IC50 72hr	LC50 96hr
100-51-6	Benzyl alcohol	230 mg/l	700 mg/l	460 mg/l
135108-88-2	methyleneoxide, polymer with benzenamine, hydrogenated	No information	No information	
1761-71-3	4,4'-methylenebicyclohexanamine	No information	No information	
98-54-4	4-tert-Butylphenol	3.4 to 4.5 mg/l	2.4 mg/l	4.71 to 5.62 mg/l
1477-55-0	benzene-1, 3-dimethanamine	No information	No information	
15520-10-2	01,5-pentanediamine, 2-methyl-	No information	No information	

13. Disposal Considerations

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	Not applicable
14.1	ON HUITIDEL	INOL ADDIICADIE

14.2 UN proper shipping name Not regulated for transport according to U.S. DOT, ADR/RID, IMDG,

and IATA regulations.

Not applicable **Technical name** 14.3 Transport hazard class(es) Not applicable Subsidiary shipping hazard Not applicable 14.4 Packing group Not applicable Not applicable 14.5 Environmental hazards 14.6 Special precautions for user Not applicable EmS-No.: Not applicable 14.7 Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC code

Not applicable

15. Regulatory Information

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

National Regulations:

Denmark Product Registration Number: Not available

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:

H302	Harmful if swallowed.
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.

H331 Toxic if inhaled.
H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

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

No Information

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

IIS 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

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

Parts per million ppm

Milligrams per cubic meter mg/m3 Threshold Limit Value TLV

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

Permissible Exposure Limits VOC Volatile organic compounds

Grams per liter g/l

Milligrams per kilogram mg/kg

Not applicable N/A Lethal dose at 50% LD50

Lethal concentration at 50% LC50

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

European Economic Community EEC

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

UN United Nations

International Maritime Dangerous Goods Code IMDG IATA International Air Transport Association

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

modified by the Protocol of 1978

International Bulk Container RTT 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.