

Safety Data Sheet

prepared to UN GHS Revision 3

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

IIN-FLOWVIN-AC Revision Date: 21/06/2022 **Product Identifier**

Supersedes Date: New SDS FLOWVIN - ACT **Product Name:**

1.2 Relevant identified uses of the

substance or mixture and uses

advised against

Component of multicomponent industrial coatings - Industrial use.

Details of the supplier of the safety data sheet 1.3

> Importer: Importer

StonCor Africa (Pty.) Ltd. Manufacturer:

8 Cresset Road

Midrand Industrial Park, Chloorkop

P.O. Box 2205 2001, Johannesburg

South Africa

Regulatory / Technical Information:

+27 11 254 5500

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

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

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, Inhalation, category 4 Skin Corrosion, category 1 Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

Benzyl alcohol, Tetraethylenepentamine, 1,2-cyclohexanediamine

HAZARD STATEMENTS

Skin Corrosion, category 1 Skin Sensitizer, category 1 Acute Toxicity, Inhalation, category 4 PRECAUTION PHRASES	H314-1 H317 H332	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash hands thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/ face 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.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	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

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
1,2-cyclohexanediamine	211-776-7	694-83-7	10 - <25	H302-314-317

Tetraethylenepentamine 203-986-2 112-57-2 1.0 - <2.5 H302-312-314-317

Acute Tox. 4 Dermal, Acute Tox. 4 Oral, Skin Corr. 1,

Skin Sens. 1

 CAS-No.
 M-Factors

 100-51-6
 0

 694-83-7
 0

 112-57-2
 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 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

No Information

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)

<u>Name</u>	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Benzyl alcohol	100-51-6				
1,2-cyclohexanediamine	694-83-7				
Tetraethylenepentamine	112-57-2				
Nama	CAS No	OEL Note			
Name	CAS-No.	OEL Note			
Name Benzyl alcohol	CAS-No. 100-51-6	OEL Note			
		OEL Note			

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 filter for organic vapor.

EYE PROTECTION: Tightly fitting safety goggles.

HAND PROTECTION: Impervious gloves. 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 Paste

Physical State Paste
Odor Epoxy

Odor threshold

PH

Not determined

Melting point / freezing point (°C)

Not determined

Not determined

Not determined

205 - N.D.

Flash Point, (°C) N/A

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

Upper/lower flammability or explosive 999 - 0

limits

Vapour Pressure Not determined
Vapour density Not determined

Relative density 1.78

Solubility in / Miscibility with water Insoluble

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: <1
Calculated grams of VOC per liter of coating product as applied.

Specific Gravity (g/cm3) 1.023

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 Inhalation LC50: No information

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: This product contains one or more carcinogenic substances. See hazard classification

and precautionary statements in Section 2 for further information

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: 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.	<u>Chemical Name</u>	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
694-83-7	1,2-cyclohexanediamine	1752 mg/kg, rat, oral			0.000	0.000

Additional Information:

No Information

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

No information

No information

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
100-51-6	Benzyl alcohol	230 mg/l	700 mg/l	460 mg/l
694-83-7	1,2-cyclohexanediamine	No information	No information	
112-57-2	Tetraethylenepentamine	No information	No information	

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 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Technical name Not applicable

14.3 Transport hazard class(es)

Subsidiary shipping hazard Not applicable

14.4 Packing group PG III

14.5 Environmental hazards Not applicable
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

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 available

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.

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.

H317 May cause an allergic skin reaction. H319 Causes serious eve irritation.

H332 Harmful if inhaled.

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 ΕU European Union US United States

CAS Chemical Abstract Service

European Inventory of Existing Chemical Substances EINECS

REACH Registration, Evaluation, Authorization of Chemicals Regulation

Globally Harmonized System of Classification and Labeling of Chemicals GHS

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

Parts per million ppm

Milligrams per cubic meter ma/m3 Threshold Limit Value TLV

American Conference of Governmental Industrial Hygienists ACGIH

OSHA Occupational Safety & Health Administration

Permissible Exposure Limits PEL VOC Volatile organic compounds

Grams per liter g/l

Milligrams per kilogram mg/kg

N/A Not applicable LD50 Lethal dose at 50%

Lethal concentration at 50% LC50

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

European Economic Community EEC

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

United Nations UN

International Maritime Dangerous Goods Code IMDG

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.