

Safety Data Sheet

prepared to UN GHS Revision 3

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

121ACT Revision Date: 18/08/2023 1.1 **Product Identifier**

Supersedes Date: New SDS Dural 121 **Product Name:**

1.2 Relevant identified uses of the

substance or mixture and uses

advised against

Hardener of 2 component adhesive. Advised against: others than recommended

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

Chettiar, Serisha - ehs@stoncor.com **Datasheet Produced by:**

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2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Dermal, category 4 Hazardous to the aquatic environment, Chronic, 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

Triethylenetetramine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, polymer of c-18 unsat'd fatty

HAZARD STATEMENTS

Acute Toxicity, Dermal, category 4 Skin Corrosion, category 1 Skin Sensitizer, category 1 Hazardous to the aquatic environment, Chronic, category 2 PRECAUTION PHRASES	H312 H314-1 H317 H411	Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
PRECAUTION PHRASES		
	P260 P264 P273	Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Avoid release to the environment.
	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.
	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.
	P391	Collect spillage.

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	EINEC No.	<u>CAS-No.</u>	<u>%</u>	<u>Classifications</u>	
polymer of c-18 unsat'd fatty	500-191-5	68082-29-1	50 - <75	H315-318-411	Aquatic Chronic 2, Eye Dam. 1, Skin Irrit. 2

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Triethylenetetramine	203-950-6	112-24-3	2.5 - <10	H311-314-317-412	Acute Tox. 3 Dermal, Aquatic Chronic 3, Skin Corr. 1, Skin Sens. 1
2,4,6-tris (dimethylaminomethyl) phenol	202-013-9	90-72-2	2.5 - <10	H315-319	Eye Irrit. 2, Skin Irrit. 2
formaldehyde polymer with phen	500-037-7	25265-17-2	2.5 - <10		
silica, crystalline free	601-216-3	112945-52-5	2.5 - <10		
3-Aminomethyl-3,5,5- trimethylcyclohexylamin e	220-666-8	2855-13-2	1.0 - <2.5	Н302-314-317	Acute Tox. 4 Oral, Skin Corr. 1B, Skin Sens. 1A
Phenol	203-632-7	108-95-2	0.1 - <1.0	H302-311-314-331-3 41-373	Acute Tox. 3 Dermal, Acute Tox. 3 Inhalation, Acute Tox. 4 Oral, Muta. 2, Skin Corr. 1, STOT RE 2

CAS-No.	M-Factors
68082-29-1	0
112-24-3	0
90-72-2	0
25265-17-2	0
112945-52-5	0
2855-13-2	0
108-95-2	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. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

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

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. Contains epoxy constituents. See information supplied by the manufacturer.

6. 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. May cause long-term adverse effects in the aquatic environment.

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 8 and 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.

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: No Information

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

polymer of c-18 unsat'd fatty 68082-29-1

Triethylenetetramine 112-24-3

2,4,6-tris(dimethylaminomethyl)phenol 90-72-2

formaldehyde polymer with phen 25265-17-2

silica, crystalline free 112945-52-5

3-Aminomethyl-3,5,5
trimethylcyclohexylamine

Phenol 108-95-2 2 4 16

Name CAS-No. OEL Note

polymer of c-18 unsat'd fatty 68082-29-1

Triethylenetetramine 112-24-3

2,4,6-tris(dimethylaminomethyl)phenol 90-72-2

formaldehyde polymer with phen 25265-17-2

silica, crystalline free 112945-52-5

3-Aminomethyl-3,5,5trimethylcyclohexylamine

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

SKIN

108-95-2

8.2 Exposure controls

Phenol

Personal Protection

Flash Point, (°C)

RESPIRATORY PROTECTION: Respirator with a vapor filter.

EYE PROTECTION: Safety glasses.

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: Clear/amber Paste

Physical State Paste

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

Boiling point/range (°C) 156 - 300

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

Upper/lower flammability or explosive

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Not determined

limits

Vapour Pressure Not determined

Vapour density Not determined

Relative density ~1

Solubility in / Miscibility with water Slightly Soluble

Partition coefficient: n-octanol/water

Not determined

Auto-ignition temperature (°C)

Not determined

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)

0.984

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

No Information

10.5 Incompatible materials

Strong oxidizing agents. Acids and bases. Amines.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Alcohols. Exothermic reaction. 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: No information available.

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.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
68082-29-1	polymer of c-18 unsat'd fatty	2001 mg/kg oral, rat			0.000	0.000
112-24-3	Triethylenetetramine	2500 mg/kg rat, oral	805 mg/kg		0.000	0.000
90-72-2	2,4,6-tris(dimethylaminomethyl) phenol	2169 mg/kg oral			0.000	0.000
112945-52-5	silica, crystalline free	10000 mg/kg, oral, rat			0.000	0.000
2855-13-2	3-Aminomethyl-3,5,5- trimethylcyclohexylamine	500 mg/kg oral			0.000	0.000
108-95-2	Phenol	317 mg/kg oral		316 mg/m3 inhalation	0.000	0.000

Additional Information:

This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

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 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.	<u>Chemical Name</u>	EC50 48hr	IC50 72hr	LC50 96hr
68082-29-1	polymer of c-18 unsat'd fatty	No information	No information	
112-24-3	Triethylenetetramine	No information	No information	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	No information	No information	
25265-17-2	formaldehyde polymer with phen	No information	No information	
112945-52-5	silica, crystalline free	No information	No information	
2855-13-2	3-Aminomethyl-3,5,5- trimethylcyclohexylamine	No information	No information	
108-95-2	Phenol	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 2735

14.2 UN proper shipping name Amines, Liquid, Corrosive, N.O.S

Technical name Not applicable

14.3 Transport hazard class(es) 8

Subsidiary shipping hazard Not applicable

14.4 Packing group PG II

14.5 Environmental hazards Not applicable
 14.6 Special precautions for user 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

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.

Other Information

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

H302	Harmful if swallowed.
H311	Toxic 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.

H341 Suspected of causing genetic defects.

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.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments. Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

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

IMO International Maritime Organization

Note P: The classification as a carcinogen or mutagen need not apply; the substance

contains less than 0,1 % w/w benzene

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in

powder form containing 1 % or more of titanium dioxide which is in the form of

or incorporated in particles with aerodynamic diameter \leq 10 μm_{\star}

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.