

Safety Data Sheet prepared to UN GHS Revision 3

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

1.1 Product Identifier 9661 A **Revision Date**: 06/10/2014

Product Name: Stonblend GSI Part A

Supercedes 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: None

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: Maritz, Rory - ehs@ stoncor.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Oral, category 4 Acute Toxicity, Dermal, category 4 Acute Toxicity, Inhalation, category 4

Hazardous to the aquatic environment, Chronic, 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

benzyl alcohol, 3-aminopropyltriethoxysilane, benzene-1, 3-dimethanamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4-nonylphenol, branched

HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Acute Toxicity, Dermal, category 4	H312	Harmful in contact with skin.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.
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
	P273	Avoid release to the environment
	P281	Use personal protective equipment as required.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P302	IF ON SKIN:
	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.
	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.
	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.
	P391	Collect spillage.

23 Other hazards

Not applicable

Results of PBT and vPvB assessment

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

3. Composition/Information On Ingredients

3.1 Substances

Hazardous Ingredients

CAS-No.	<u>Chemical Name</u>	<u>%</u>
100-51-6	benzyl alcohol	25-50
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	10-25
1477-55-0	benzene-1, 3-dimethanamine	10-25
84852-15-3	4-nonylphenol, branched	2.5-10
919-30-2	3-aminopropyltriethoxysilane	2.5-10
64-17-5	ethanol	<0.1

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
100-51-6	GHS07	H302-319-332	0
1477-55-0	GHS05-GHS06	H302-314-317-318-330-412	0
2855-13-2	GHS05-GHS07	H302-312-314-317-318-412	0
84852-15-3	GHS05-GHS07-GHS08-GHS09	H302-314-318-361-400-410	0
919-30-2	GHS05-GHS07	H302-314	0
64-17-5	GHS02	H225	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

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.

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 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

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).

Reference to other sections 64

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

7. Handling and Storage

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 WEASURES: 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

Specific end use(s) 7.3

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits

(EU) Name

<u>Name</u>	<u>%</u>	<u>LIEL ppm</u>	SIEL ppm	STEL mg/m3	LIEL mg/m3	<u>OEL NOTE</u>
benzyl alcohol	25-50					
3-aminomethyl-3,5,5-trimethylcyclohexylamine	10-25					
benzene-1, 3-dimethanamine	10-25					
4-nonylphenol, branched	2.5-10					
3-aminopropyltriethoxysilane	2.5-10					
ethanol	< 0.1					

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: 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. Rubber or plastic apron.

OTHER PROTECTIVE EQUIPMENT: No Information

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Clear To Amber Appearance:

Physical State Liquid

Odor Ammoniacal Odor threshold Not determined

pH Alkaline

Melting point / freezing point (°C)Not determined

Boiling point/range (°C) 78 - N.D.

Flash Point, (°C) 93

Evaporation rate Not determined

Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 999 - 0

limits

Vapour Pressure, mmHgNot determinedVapour densityNot determined

Relative density 1.01-1.03

Solubility in / Miscibility with water Less Than 1% @ 200

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Not determined

Not determined

Viscosity

120-140 cps

Explosive properties

Not determined

Not determined

Not determined

9.2 Other information

VOC Content g/l: 17
Calculated grams of VOC per liter of coating product as applied.

Specific Gravity (g/cm3) 1.034

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:

Inhalation LC50:

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
100-51-6	benzyl alcohol	1230 mg/kg rat, oral		1000 ppm /8 hrs rat, inhalation
1477-55-0	benzene-1, 3-dimethanamine	1514 mg/kg, oral		
2855-13-2	3-aminomethyl-3,5,5- trimethylcyclohexylamine	500 mg/kg oral		
84852-15-3	4-nonylphenol, branched	1620 mg/kg oral		
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

12.5 Results of PBT and vPvB

assessment

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

12.6 Other adverse effects:

No information

CAS-No.	<u>Chemical Name</u>	EC50 48hr	IC5072hr	LC 50 96hr
100-51-6	benzyl alcohol	No information	No information	
2855-13-2	3-aminomethyl-3,5,5- trimethylcyclohexylamine	No information	No information	
1477-55-0	benzene-1, 3-dimethanamine	No information	No information	
84852-15-3	4-nonylphenol, branched	No information	No information	
919-30-2	3-aminopropyltriethoxysilane	No information	No information	
64-17-5	ethanol	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 3267

14.2 UN proper shipping name Corrosive liquid, basic, organic, n.o.s.

Isophoronediamine, modified aliphatic amine Technical name

8 14.3 Transport hazard class(es)

Subsidiary shipping hazard

14.4 Packing group Ш

14.5 Environmental hazards

14.6 Special precautions for user **Not applicable**

EmS-No.:

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:

Danish MAL Code:

Sweden Product Registration Number:

Norway Product Registration Number:

WGK Class:

15.2 Chemical Safety Assessment

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

6. Other Information

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

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.

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. H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.H412Harmful 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 ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy

Annex VI of the EU Council Directive 67/548/EEC

Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation)

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

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.

No Information