



## Safety Data Sheet according to Regulation (EC) 'No. 2020/878

### SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

<b>1.1 Product Identifier</b>	4631A0052S	<b>Revision Date:</b>	07/10/2020
<b>Product Name:</b>	THERMALINE 4631	<b>Supersedes Date:</b>	New SDS
<b>UFI Code:</b>	No Information		
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Monocomponent industrial coating - Industrial use.		
<b>1.3 Details of the supplier of the safety data sheet</b>			
<b>Importer:</b>	None		
<b>Manufacturer:</b>	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		
<b>Datasheet Produced by:</b>	Rivero, Melody - ehs@stoncor.com		
<b>1.4 Emergency telephone number:</b>	CHEMTREC +1 703 5273887 (Outside US) 112 (24/7) Croatia +3851 2348 342 (24/7 in Croatian and English) Iceland 112 (24/7) Malta 112 (24/7)		

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

**HAZARD STATEMENTS**

Flammable Liquid, category 2	H225
Skin Irritation, category 2	H315
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
Carcinogenicity, category 1A	H350-1A
Reproductive Toxicity, category 2	H361
STOT, single exposure, category 1	H370

**2.2 Label elements****Symbol(s) of Product****Signal Word**

Danger

**Named Chemicals on Label**

Ethylbenzene, Toluene, Xylene, quartz (silicon dioxide)

**HAZARD STATEMENTS**

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Carcinogenicity, category 1A	H350-1A	May cause cancer.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
STOT, single exposure, category 1	H370	Causes damage to organs.

**PRECAUTION PHRASES**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
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.
P284	Wear respiratory protection.
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.
P307+311	IF exposed, call a POISON CENTER or doctor/physician.
P308+313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P332+313	If skin irritation 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.

**Endocrine disrupting properties - Toxicity**

Name According to EEC

CAS-No.

No Information

**Endocrine disrupting properties - Ecotoxicity**

Name According to EEC

CAS-No.

No Information

**SECTION 3: Composition/Information On Ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures****Hazardous ingredients**

<u>Name According to EEC</u> <u>EINEC No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u>	<u>%</u>	<u>Classifications</u>	SCL Value: ATE Value: M-Factor:
Xylene 215-535-7 1330-20-7 No Information	25 - <50	H226-315-332	SCL Value: - ATE Value: - M-Factor: -
quartz (silicon dioxide) 238-878-4 14808-60-7 No Information	10 - <25	H350-370	SCL Value: - ATE Value: - M-Factor: -
Aluminium powder (pyrophoric) 231-072-3 7429-90-5 No Information	10 - <25	H261	SCL Value: - ATE Value: - M-Factor: -

Toluene 203-625-9 108-88-3 No Information	2.5 - <10	H225-304-315-336-361-373	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-
Ethylbenzene 202-849-4 100-41-4 No Information	2.5 - <10	H225-304-315-319-332-373	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-
Solvent naphtha (petroleum), light arom. 265-199-0 64742-95-6 No Information	1.0 - <2.5	H304-411	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-
2-methylpropan-1-ol 201-148-0 78-83-1 No Information	1.0 - <2.5	H226-315-318-335-336	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-
Solvent naphtha (petroleum), medium aliph. 265-191-7 64742-88-7 No Information	<0.1	H304	<b>SCL Value:</b>	-
			<b>ATE Value:</b>	-
			<b>M-Factor:</b>	-

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 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.

**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.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. 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.

## SECTION 5: Firefighting Measures

**5.1 Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**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**

Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Water sprayDry powderAlcohol-resistant foamCarbon dioxide (CO<sub>2</sub>). 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.

## SECTION 6: Accidental Release Measures

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

**6.1.1 For non-emergency personnel**

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

**6.1.2 For emergency responders**

No Information

**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**

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## SECTION 7: Handling and Storage

**7.1 Precautions 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. 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.

# SECTION 8: Exposure Controls/Personal Protection

## 8.1 Control parameters

### Ingredients with Occupational Exposure Limits (EU)

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
Xylene	1330-20-7	50	100	442	221
quartz (silicon dioxide)	14808-60-7				
Aluminium powder (pyrophoric)	7429-90-5				
Toluene	108-88-3	50	100	384	192
Ethylbenzene	100-41-4	100	200	884	442
Solvent naphtha (petroleum), light arom.	64742-95-6				
2-methylpropan-1-ol	78-83-1				
Solvent naphtha (petroleum), medium aliph.	64742-88-7				

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
Xylene	1330-20-7	SK
quartz (silicon dioxide)	14808-60-7	
Aluminium powder (pyrophoric)	7429-90-5	
Toluene	108-88-3	
Ethylbenzene	100-41-4	SKIN
Solvent naphtha (petroleum), light arom.	64742-95-6	
2-methylpropan-1-ol	78-83-1	
Solvent naphtha (petroleum), medium aliph.	64742-88-7	

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

**Chemical Name:****EC No.:****CAS-No.:****DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							
Inhalation								
Dermal								

**PNEC's - Predicted no effect concentration**

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

**8.2 Exposure controls****Personal Protection****RESPIRATORY PROTECTION:** Respirator with a vapor filter.**EYE PROTECTION:** Tightly fitting safety goggles.**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**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.**SECTION 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<b>Colour:</b>	Aluminim Liquid
<b>Physical State</b>	Liquid
<b>Odor</b>	No Odor
<b>Odor threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting point / freezing point (°C)</b>	Not determined
<b>Boiling point or initial boiling point and boiling range (°C)</b>	53 - 140
<b>Flash Point, (°C)</b>	20
<b>Evaporation rate</b>	Slower Than Ether
<b>Flammability (solid, gas)</b>	Not determined
<b>Lower and upper explosive limit</b>	1 - 7.16
<b>Vapour Pressure</b>	Not determined
<b>Relative vapour density</b>	Heavier Than Air
<b>Density and/or relative density</b>	Not determined
<b>Solubility in / Miscibility with water</b>	Not determined
<b>Partition coefficient: n-octanol/water</b>	Not determined

<b>Auto-ignition temperature (°C)</b>	Not determined
<b>Decomposition temperature (°C)</b>	Not determined
<b>Kinematic viscosity</b>	Unknown
<b>Particle characteristics</b>	Not measured

**9.2 Other information**

<b>VOC Content g/l:</b>	No Information
<b>Calculated grams of VOC per liter of coating product as applied.</b>	
<b>Specific Gravity (g/cm<sup>3</sup>)</b>	1.160

**SECTION 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**

Direct sources of heat.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute Toxicity:**

<b>Oral LD50:</b>	No information available.
<b>Inhalation LC50:</b>	No information available.
<b>Dermal LD50:</b>	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:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
1330-20-7	Xylene	3523 mg/kg, rat, oral	12126 mg/kg, rabbit	5000 ppm/4 hrs rat, inhalation	0.000	0.000
108-88-3	Toluene	5000 mg/kg rat oral, 14000 mg/kg rabbit dermal		8000 ppm/4 hrs, rat, inhalation	0.000	0.000
100-41-4	Ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h	0.000	0.000
64742-95-6	Solvent naphtha (petroleum), light arom.	4700 mg/kg, oral, rat	>2000 mg/kg	3670 ppm/8 hours, rat, inhalation	0.000	0.000
64742-88-7	Solvent naphtha (petroleum), medium aliph.	>2000 mg/kg, oral, rat			0.000	0.000

**Additional Information:**

No Information

**11.2 Information on other hazards**

**Endocrine disrupting properties - Toxicity**

**Name According to EEC**

**CAS-No.**

No Information

## SECTION 12: Ecological Information

**12.1 Toxicity:**

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 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/VPvB in accordance with Annex XIII.

**12.6 Endocrine disrupting properties**

**Endocrine disrupting properties - Ecotoxicity**

**Name According to EEC**

**CAS-No.**

No Information

**12.7 Other adverse effects:** No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
1330-20-7	Xylene	3.82 mg/l	No information	24-30 mg/l, minnow
14808-60-7	quartz (silicon dioxide)	No information	No information	
7429-90-5	Aluminium powder (pyrophoric)	No information	No information	
108-88-3	Toluene	No information	No information	
100-41-4	Ethylbenzene	1.37 mg/l	No information	32 mg/l (Bluegill)
64742-95-6	Solvent naphtha (petroleum), light arom.	>1 - 10 mg/l	>1 - 10 mg/l	>10-100 mg/l
78-83-1	2-methylpropan-1-ol	No information	No information	
64742-88-7	Solvent naphtha (petroleum), medium aliph.	No information	No information	

### SECTION 13: Disposal Considerations

**13.1 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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**European Waste Code:** 080111

**Packaging Waste Code:** 150110

## SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN-number or ID number</b>	No Information	No Information	No Information	No Information
<b>14.2 UN proper shipping name</b>	No Information	No Information	No Information	No Information
<b>14.3 Transport Hazard Class(es)</b>	No Information	No Information	No Information	No Information
<b>14.4 Packing Group</b>	No Information	No Information	No Information	No Information
<b>14.5 Enviromental Hazards</b>	No Information	No Information	No Information	No Information

- |  |          |
|--|----------|
| <b>14.6 Special precautions for user</b>                           | Unknown  |
| <b>EmS-No.:</b>  | F-E, S-E |
| <b>14.7 Maritime transport in bulk according to IMO intruments</b> | Unknown  |

## SECTION 15: Regulatory Information

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

#### National Regulations:

- |   |               |
|---|---------------|
| <b>Denmark Product Registration Number:</b> | Not available |
| <b>Danish MAL Code:</b>                     | Not available |
| <b>Danish MAL Code - Mixture:</b>           | Not available |
| <b>Sweden Product Registration Number:</b>  | Not available |
| <b>Norway Product Registration Number:</b>  | Not available |
| <b>Germany WGK Class:</b>                   | Not available |

**Covered by Directive 2012/18/EC (Seveso III):** Not applicable

**Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:** Not applicable

**Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:**

CAS-No.      Name According to EEC

Not Applicable

**SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):**

CAS-No.      Name According to EEC

Not Applicable

**15.2 Chemical Safety Assessment:**

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

**SECTION 16: Other Information**

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H261	In contact with water releases flammable gas.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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
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.