

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sikalastic®-625



Revision Date 24.04.2014

Print Date 12.05.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Sikalastic®-625

1.2 Relevant identified uses of the substance or mixture and uses advised against

At present there is no complete information available on identified uses. When the data becomes available, it will be integrated into the safety data sheet.

Product use : Polyurethane coating.

1.3 Details of the supplier of the safety data sheet

Company : Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire AL7 1BQ
United Kingdom

Telephone : +44 (0)1707 394444

1.4 Emergency telephone number

Emergency telephone number : +44 (0)1707 363899 (available during office hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product : Mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Flammable	R10: Flammable.
Harmful	R20: Harmful by inhalation.
Sensitising	R42/43: May cause sensitisation by inhalation and skin contact.

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Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Danger

Hazard statements

: H226

Flammable liquid and vapour.

H317

May cause an allergic skin reaction.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P285

In case of inadequate ventilation wear respiratory protection.

Response:

P304 + P341

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

- 223-861-6 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
- 255-437-1 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
- 280-060-4 methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Additional Labelling:

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).



SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 4098-71-9 223-861-6 01-2119490408-31-XXXX	T; R23 Xi; R36/37/38 R42/43 N; R51/53	Acute Tox.1; H330 Skin Irrit.2; H315 Eye Irrit.2; H319 Resp. Sens.1; H334 Skin Sens.1; H317 STOT SE3; H335 Aquatic Chronic2; H411	>= 0,5 - < 1
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7 255-437-1 01-2119491304-40-XXXX	N; R50/53 R43	Skin Sens.1; H317 Aquatic Chronic1; H410 Aquatic Acute1; H400	>= 0,25 - < 1
1-ethylpyrrolidin-2-one 2687-91-4 220-250-6 01-2119472138-36-XXXX	Xi; R41 Repr.Cat.3; R63	Eye Dam.1; H318 Repr.2; H361d	>= 0,3 - < 1
Hydrocarbons, C9, aromatics 64742-95-6 265-199-0 01-2119455851-35-XXXX	Xn; R65 R10 Xi; R37 R66 R67 N; R51/53	Flam. Liq.3; H226 STOT SE3; H335, H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 0,25 - < 1
2-ethylhexanoic acid, zirconium salt 22464-99-9 245-018-1 01-2119979088-21-XXXX	Repr.Cat.3; R63	Repr.2; H361d	< 0,3
zinc bis(2-ethylhexanoate) 136-53-8 205-251-1	N; R51/53	Aquatic Chronic2; H411	< 0,25
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 82919-37-7 280-060-4	N; R50/53 R43	Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,1 - < 0,25

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bis(2-ethylhexanoato-O)-μ-oxodizinc 54262-78-1 259-049-3	N; R51/53	Aquatic Chronic2; H411	< 0,25
tolylfluamid (ISO) [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 μm] 731-27-1 211-986-9	T+; R26 T; R48/23 Xi; R36/37/38 R43 N; R50	Acute Tox.2; H330 STOT RE1; H372 Eye Irrit.2; H319 STOT SE3; H335 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Acute1; H400	< 0,1
Substances with a workplace exposure limit :			
2-methoxy-1-methylethyl acetate 108-65-6 203-603-9 01-2119475791-29-XXXX Contains: 2-methoxypropyl acetate ≤ 1 %	R10	Flam. Liq.3; H226	≥ 20 - < 25

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Asthmatic appearance
Allergic reactions
See Section 11 for more detailed information on health effects and symptoms.



Risks : sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical

Unsuitable extinguishing media : Water

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Deny access to unprotected persons.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.



SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Follow standard hygiene measures when handling chemical products
- Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against electrostatic discharges.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Store in accordance with local regulations.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters *	Basis *
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm 275 mg/m ³	2000/39/EC
		STEL	100 ppm	2000/39/EC

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			550 mg/m3	
		TWA	50 ppm 274 mg/m3	GB EH40
		STEL	100 ppm 548 mg/m3	GB EH40
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
2-ethylhexanoic acid, zirconium salt	22464-99-9	TWA	5 mg/m3	GB EH40
		STEL	10 mg/m3	GB EH40

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses with side-shields
Eye wash bottle with pure water
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
- Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (0,4 mm),
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
- Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapor (Type A) and particulate filter
Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
P1: Inert material; P2: Xn; P3: T, T+
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure



limits then respiration protection measures must be used.

Environmental exposure controls

General advice : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform
respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: viscous
Colour	: various
Odour	: hydrocarbon-like
Odour Threshold	: no data available
Flash point	: 52 °C
Autoignition temperature	: 315 °C
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 10,8 %(V)
Flammability (solid, gas)	: no data available
Oxidizing properties	: no data available
Auto-ignition temperature	: no data available
pH	: no data available
Melting point/range / Freezing point	: no data available
Boiling point/boiling range	: no data available
Vapour pressure	: 0,0337 hPa
Density	: 1,3 g/cm ³ at 20 °C
Water solubility	: no data available
Partition coefficient: n-octanol/water	: no data available
Viscosity, dynamic	: no data available

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Viscosity, kinematic : > 7 mm²/s
at 40 °C

Relative vapour density : no data available

Evaporation rate : no data available

9.2 Other information
no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate :

Acute oral toxicity : LD50 Oral rat: 4.814 mg/kg

Acute inhalation toxicity : LC50 rat: 0,031 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal rat: > 7.000 mg/kg

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1-ethylpyrrolidin-2-one :

Acute oral toxicity : LD50 Oral rat: > 3.200 mg/kg

Acute inhalation toxicity : LC50 rat: 5,1 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal rat: > 2.000 mg/kg

Hydrocarbons, C9, aromatics :

Acute oral toxicity : LD50 Oral rat: > 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: > 2.000 mg/kg

2-methoxy-1-methylethyl acetate :

Acute oral toxicity : LD50 Oral rat: > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: > 5.000 mg/kg

Skin corrosion/irritation

Product

no data available

Serious eye damage/eye irritation

Product

no data available

Respiratory or skin sensitisation

Product

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Product

Mutagenicity : no data available

Carcinogenicity

Product

Carcinogenicity : no data available

Reproductive Toxicity/Fertility

Reproductive toxicity : no data available

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no data available

Reproductive Toxicity/Development/Teratogenicity

Teratogenicity : no data available

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C9, aromatics :

Toxicity to algae : 2,6 - 2,9 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae)

tolyfluanid (ISO) [containing $\geq 0,1$ % (w/w) of particles with an aerodynamic diameter of below 50 μm] :

M-Factor : 10

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available



SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | | |
|------------------------|---|---|
| Product | : | The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
| Contaminated packaging | : | 15 01 10* packaging containing residues of or contaminated by dangerous substances |

SECTION 14: Transport information

ADR

- | | | |
|--------------------------------|---|------------------------|
| 14.1 UN number | : | 1263 |
| 14.2 Description of the goods | : | PAINT RELATED MATERIAL |
| 14.3 Class | : | 3 |
| 14.4 Packing group | : | III |
| Classification Code | : | F1 |
| Labels | : | 3 |
| Tunnel restriction code | : | (D/E) |
| 14.5 Environmentally hazardous | : | no |

ADR

Exempted according to 2.2.3.1.5 (Viscous substance exemption)

IATA

- | | | |
|--------------------------------|---|------------------------|
| 14.1 UN number | : | 1263 |
| 14.2 Description of the goods | : | Paint related material |
| 14.3 Class | : | 3 |
| 14.4 Packing group | : | III |
| Labels | : | 3 |
| 14.5 Environmentally hazardous | : | no |

IMDG

- | | | |
|-------------------------------|---|------------------------|
| 14.1 UN number | : | 1263 |
| 14.2 Description of the goods | : | PAINT RELATED MATERIAL |
| 14.3 Class | : | 3 |
| 14.4 Packing group | : | III |

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Labels : 3
EmS Number 1 : F-E
EmS Number 2 : S-E
14.5 Marine pollutant : no

14.6 Special precautions for user
no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

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

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



Harmful

R-phrases(s)	: R10 R20 R42/43 R52/53	Flammable. Harmful by inhalation. May cause sensitisation by inhalation and skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	: S23 S23 S24 S37 S38 S45	Do not breathe spray. Do not breathe vapour. Avoid contact with skin. Wear suitable gloves. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:

- 223-861-6 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Special labelling of certain mixtures : Contains isocyanates. See information supplied by the manufacturer.

REACH Information: All substances contained in our Products are
- preregistered or registered by our upstream suppliers, and/or
- preregistered or registered by us, and/or



- excluded from the regulation, and/or
- exempted from the registration.

VOC-CH (VOCV) : 20,88 %

VOC-EU (solvent) : 21,33 %

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002
Control of Substances Hazardous to Health Regulations 2002
The Management of Health and Safety at Work Regulations 1999
Health and Safety at Work Act 1974
Environmental Protection Act 1990 & Subsidiary Regulations

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of R-Phrases

R10	Flammable.
R23	Toxic by inhalation.
R26	Very toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitisation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

|| Changes as compared to previous version !