

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sikagard-680 S Clear Glaze



Revision Date 11.11.2017

Version 1.0

Print Date 11.11.2017

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

1.1 Product identifier

Trade name / Sikagard-680 S Clear Glaze

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

Product use / Surface protection

1.3 Details of the supplier of the safety data sheet

Company / Si2a3i Limited
4 atc5 Road
4 el6 (n) arden Cit
Hertfordshire A37 1*7
8nited Kingdom

Telephone / :-- (0) 1707 +9----

1.4 Emergency telephone number

Emergency (telephone no.); / :-- (0)1707 +99 (available during office hours)
/er

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product / Mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquid Category 2	H228 / Flammable liquid and gas.
Serious eye damage Category 1	H314 / Causes serious eye damage.
Specific target organ toxicity (single exposure) Category 3 Central nervous system	H336 / May cause drowsiness or dizziness.
Specific target organ toxicity (single exposure) Category 3 Respiratory tract irritation	H335 / May cause respiratory irritation.
Chronic aquatic toxicity Category 5	H411 / Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictogram /



Signal word / Danger

Hazard statement /

H228 / Flammable liquid and gas.

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<p>H+1, H++ H+ H-11</p>	<p>Cause of serious effects (e.g. death). = a cause of irritator (irritation). = a cause of skin sensitization or allergic reaction. Toxic to aquatic life in long lasting effects.</p>
<p>Suitable for use State of use</p>	<p>E8H0 " "</p> <p>Repeated exposure (e.g. in dermal contact) may be harmful.</p>

<p>Precautionary statements</p>	<p>Prevention: P101 P102 P103 P104 P105 P106 P107 P108 P109 P110 P111 P112 P113 P114 P115 P116 P117 P118 P119 P120 P121 P122 P123 P124 P125 P126 P127 P128 P129 P130 P131 P132 P133 P134 P135 P136 P137 P138 P139 P140 P141 P142 P143 P144 P145 P146 P147 P148 P149 P150 P151 P152 P153 P154 P155 P156 P157 P158 P159 P160 P161 P162 P163 P164 P165 P166 P167 P168 P169 P170 P171 P172 P173 P174 P175 P176 P177 P178 P179 P180 P181 P182 P183 P184 P185 P186 P187 P188 P189 P190 P191 P192 P193 P194 P195 P196 P197 P198 P199 P200 P201 P202 P203 P204 P205 P206 P207 P208 P209 P210 P211 P212 P213 P214 P215 P216 P217 P218 P219 P220 P221 P222 P223 P224 P225 P226 P227 P228 P229 P230 P231 P232 P233 P234 P235 P236 P237 P238 P239 P240 P241 P242 P243 P244 P245 P246 P247 P248 P249 P250 P251 P252 P253 P254 P255 P256 P257 P258 P259 P260 P261 P262 P263 P264 P265 P266 P267 P268 P269 P270 P271 P272 P273 P274 P275 P276 P277 P278 P279 P280 P281 P282 P283 P284 P285 P286 P287 P288 P289 P290 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Hazardous components

- 91, ; ; ; ; % H(drocar<on\$ C9\$ aro . atic\$
- !01;1- ; ; 0 !; . et5(l1ro1an;1;ol

2.3 Other hazards

The substance in its pure form contains no hazardous components considered to be extremely hazardous (H+), or very hazardous (H) or hazardous (H-) or irritant (Xi) or sensitizing (S) or carcinogenic (C) or mutagenic (M) or toxic to the environment (N) or persistent and bioaccumulative (P) or very persistent and bioaccumulative (Vp) or extremely persistent and bioaccumulative (Xp).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name CAS/No. EC/No. Registration number	Classification (RE) 83ATBCN (EC) No 1!7! !00,)	Concentration EDF
H(drocar<on\$ C9\$ aro . atic\$ 91, ; ; ; ; % 01; !119-%%, %1; +%; GGGG \$corres\$1onding grou1 CAS "-7- !; 9%; "F	Fla . . 3i?.+H H!! " STCT SE+H H++% H++ " A\$1. To>.1H H+0- A?uatic C5ronic!H H-11	IJ %0 ; KJ 100
H(drocar<on\$ C ; ; C1! n; a2ane\$ i\$oa2ane\$ c(clic\$ aro . atic\$ (! ; !%D)	Fla . . 3i?.+H H!! " STCT SE+H H++ " STCT RE1H H+7!	IJ 10 ; K 1%

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<p>91; ;1+";- 01; !119- , - , 09;19;GGGG Ecorre\$1onding grou1 CAS "-7- !; , !;1F</p>	<p>AS1. To>.1H H+0- A?uatic C5ronic!H H-11</p>	
<p>!; . et5(l1ro1an;1;ol 7; , , +;1 !01;1- , ;0 01; !119- , - "09; !+;GGGG</p>	<p>Fla . . 3i?.+H H!! " STCT SE+H H++% H++" S2in Brrit. !H H+1% E(e Da . .1H H+1 ,</p>	<p>I J + ; K %</p>
<p>H(drocar<on\$ C9;C1 ! n; al2ane\$ i\$soal2ane\$ c(clic\$ aro . atic\$ (!; !%D) 919; - - " ;0 01; !119- % , 0-9; ++;GGGG Ecorre\$1onding grou1 CAS "-7- !; , !;1F</p>	<p>Fla . . 3i?.+H H!! " STCT SE+H H++" STCT RE1H H+7! AS1. To>.1H H+0- A?uatic C5ronic!H H-11</p>	<p>I J 1 ; K ! %</p>
<p>Su<\$tance\$ 6it5 a 6or21lace e>1o\$ure li . it /</p>		
<p>!; . et5o> (;1; . et5(l et5(l acetate 10 , ; "% ;" !0+ ; "0+ ;9 01; !119- 7%791; !9;GGGG Contain\$/ !; . et5o> (1ro1(l acetate KJ 1 D</p>	<p>Fla . . 3i?.+H H!! "</p>	<p>I J % ; K 10</p>

For t5e ull t5e t o0 t5e H; State . ent\$. entioned in t5i\$ Section! \$ee Section 1 "

SECTION 4: First aid measures

4.1 Description of first aid measures

-) eneral ad#ice / =o#e out o0 dangerou\$ area.
 Con\$ult a 15(\$ician.
 S5o6 t5i\$ \$a0et(data \$5eet to t5e doctor in attendance.
- BO in5aled / =o#e to 0re\$5 air.
 Con\$ult a 15(\$ician alter \$ignificat e>1o\$ure.
- Bn ca\$e o0 \$2in contact / Ta2e o00 conta . inated clot5ing and \$5oe\$ i . . ediatel(.
 4 a\$5 o00 6it5 \$oa1 and 1lent(o0 6ater.
 BO \$(. 1to . \$ 1er\$i\$t0 call a 15(\$ician.
- Bn ca\$e o0 e(e contact / S . all a . ount\$ \$1la\$5ed into e(e\$ can cau\$e irre#er\$i<le ti\$;
 \$ue da . age and <lindne\$\$.
 Bn t5e ca\$e o0 contact 6it5 e(e\$ rin\$e i . . ediatel(6it5 1lent(
 o0 6ater and \$ee2 . edical ad#ice.
 Continue rin\$ing e(e\$ during tran\$1ort to 5o\$1ital.
 Re . o#e contact len\$e\$.
 9ee1 e(e 6ide o1en 65ile rin\$ing.
- BO \$6allo6ed / Clean . out5 6it5 6ater and drin2 alter6ard\$ 1lent(o0 6ater.
 Do not gi#e . il2 or alco5olic <e#erage\$.
 Ne#er gi#e an(t5ing < . out5 to an uncon\$ciou\$ 1er\$on.

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4.2 Most important symptoms and effects, both acute and delayed

- Swallowing / Coug5
Respirator (disorder)
Eye irritation (inflammation)
Erythema
Sore throat
&ertigo
See Section 11 for more detailed information on health effects
and Swallowing.
- Risk / irritant effect

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment / Treatment (toxicity).

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media / Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical
- Unsuitable extinguishing media / Water, High pressure water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazard during fire; / Do not use a solid water stream as it may scatter and spread fire. Do not allow runoff of fire extinguishing to enter drain or water course.
- Hazardous combustion products; / No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment / In the event of fire, wear self-contained breathing apparatus.
- Further information / Use water spray to cool unopened containers. Collect containers; inactivated extinguishing water spray (T5) must not be discharged into drain. Fire residue and containers inactivated extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precaution / Use personal protective equipment.
Remove all sources of ignition.
Deny access to unprotected persons.

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* The above values are calculated to the concentration. The actual values can vary in the area.

6.2 Environmental precautions

Environmental precautions / Prevent the product from entering drains. Do not let the product contaminate rivers and lakes or drain into the receptacles.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Contain spillage and then collect it non-combustible; absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local national regulation (See Section 1+).

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 / Do not breathe dust or fumes. Avoid exceeding the given occupational exposure limit (See Section 8). Do not get in eyes on skin or on clothing. For personal protection See Section 8. Stop eating and drinking should be prohibited in the application area. Take precautions (wear goggles, gloves, etc.) against static discharge. Clean thoroughly (avoid contact with skin; dermal exposure). Take necessary action to avoid static electricity (discharge (5% humidity) cause ignition of organic material). Follow standard hygiene measures when handling chemicals.

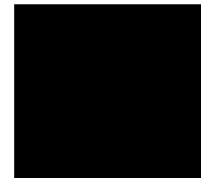
Advice on protection against fire and explosion / Use explosion-proof equipment. Use explosion-proof equipment. No smoking. Take precautions (wear goggles, gloves, etc.) against electrostatic discharge.

Hygiene measures / Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink. Do not use in confined spaces. Use appropriate ventilation and at the end of work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage area and container / Use explosion-proof container (closed in a drum and vented). Containers are opened, used, sealed and resealed. Store in accordance with local regulation.

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Character data / No decomposition 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

Component	CAS;No.	Value	Control Parameter; Term	Classification
1,2-Ethoxyethane; 1,2-Ethoxyethane (acetate)	108-90-7	T4 A	0.1% 17% g . +) * EH-0
		STE3	100% %-, .g . +) * EH-0
1,2-Ethoxyethane (1,2-ethoxyethane)	75-21-8	T4 A	0.1% 1%-. .g . +) * EH-0
		STE3	7% !+1 .g . +) * EH-0

8.2 Exposure controls

Personal protective equipment

Eye protection / Safety glasses with side shields
 Eye protection with side shields

Hand protection / Chemical resistant gloves made of nitrile or neoprene conforming to EN 388 standard for protection against abrasion, cuts and lacerations. Reference number EN 388:2016. Follow manufacturer's instructions.

Suitable for use or protection against splash
 * nitrile or neoprene gloves (0.3 mm thick)
 Contaminated gloves should be removed.
 Suitable for use or protection against splash
 * nitrile or neoprene gloves (0.3 mm thick)
 Change gloves immediately.

Respiratory protection (protection) / Respiratory protection (e.g. Safety goggles according to EN 1836:2006 long-term or long-term respiratory protection). Respiratory protection and eye protection are additional (recommended for use and stirring for 2).

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Respirator (Protection

/ Respirator Selection . Use a respirator on 206n or anticipated
exposure levels of the material of the product and the same for;
ing li . it of the Selected respirator.
organic material filter (Type A)
A1/ K 1000 11 . H A! / K %000 11 . H A+ / K 10000 11 .
Ensure adequate ventilation. This can be achieved (local
exhaust) - 7 . 03955 (<) - 1 . . 4 61TJa-21ud ui o6n o<-1 . 20652(>)]

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Appearance	/	viscous liquid
Density	/	ca. 1.9 g/cm ³ at 20 °C
Water solubility	/	Note: insoluble
Partition coefficient n-octanol/water	/	No data available
Flash point (closed cup)	/	No data available
Flash point (open cup)	/	100 °C at 20 °C
Relative 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 under normal conditions.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reaction / Stable under recommended storage conditions.

Reaction with water or moisture.

10.4 Conditions to avoid

Conditions to avoid / Heat, flame and sparks.

10.5 Incompatible materials

Materials to avoid / No data available

10.6 Hazardous decomposition products

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Hydrocarbons, C9, aromatics:

Acute oral toxicity (LD50) / 3D%0 Cral (Rat)/ I !.000 . g 2g

Acute dermal toxicity (LD50) / 3D%0 Der . al (Ra<<it)/ I !.000 . g 2g

Hydrocarbons, C8-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Acute oral toxicity (LD50) / 3D%0 Cral (Rat)/ I %.000 . g 2g

2-methoxy-1-methylethyl acetate:

Acute oral toxicity (LD50) / 3D%0 Cral (Rat)/ I %.000 . g 2g

Acute dermal toxicity (LD50) / 3D%0 Der . al (Ra<<it)/ I %.000 . g 2g

Skin corrosion/irritation

Product:

Re . ar2\$/ Re1eated e>1o\$ure . a(cau\$e \$2in dr(ne\$\$ or crac2ing.

Serious eye damage/eye irritation

Product:

Re . ar2\$/ Cau\$e\$ \$erious\$ e(e da . age.

Respiratory or skin sensitisation

Product:

Re . ar2\$/ No data a#aila<le

Germ cell mutagenicity

Product:

) er . cell . utagenicit(; A\$; / No data a#aila<le
\$e\$\$. ent

Carcinogenicity

Product:

Carcinogenicit(; A\$\$e\$\$; / No data a#aila<le
. ent

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Reproductive toxicity

Product:

Reproductive toxicity (; AS) / No data available
See section 12.1

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C9, aromatics :

Toxicity to algae / ; ; 9 . g 7! 5! ' Pseudo-nitzschia (green algae)

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:

See section 12.1 / The substance in its pure form contains no components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a level of 0.1 D or 5 g/l.

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. E.g. use of containers or liners to retain the product residue. The material and its container must be disposed of in a dedicated container. Disposal of surplus and non-recyclable product via a licensed

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6a) The distributor/contractor.
This is a solution and an () product should
at all times be used in accordance with the
protection and 6a) legislative and (regional
local authorities) requirements.
Avoid direct contact with skin and contact with
oil, water, drains and sewerage.

Eurolean 4 a) Catalogue / 0, 01 11M 6a) paint and #ar) containing organic sol;
#ent) or other dangerous substances

Contented packaging / 1% 01 10M 1ac) containing residue) or contented
(dangerous substances

SECTION 14: Transport information

ADR

14.1 UN number / 1155
14.2 Description of the goods / 'ABNT
14.3 Class / +
14.4 Packing group / BBB
Classification Code / F1
3a) / +
Tunnel restriction code / (D E)
14.5 Environmentally hazardous / (e)

IATA

14.1 UN number / 1155
14.2 Description of the goods / 'aint
14.3 Class / +
14.4 Packing group / BBB
3a) / +
14.5 Environmentally hazardous / (e)

IMDG

14.1 UN number / 1155
14.2 Description of the goods / 'ABNT
(na) (troleum .))
14.3 Class / +
14.4 Packing group / BBB

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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

Prohibition/Restriction

REACH ; Restriction on the manufacture, placing on the market and use of certain dangerous substances (Annex I and article 6 (Annex G)) / *anned and or restricted (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)

REACH ; Candidate list of Substances of High Concern for Authorization (Article 9) / None of the components are listed (Annex I).

REACH ; Substances subject to authorization (Annex G) / Not applicable

REACH ban on / All substances contained in our products are ; 1) registered or registered (our website) and or ; 2) registered or registered (US) and or ; 3) excluded from the regulation and or ; 4) exempt from the registration.

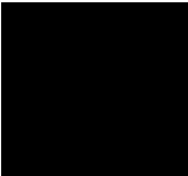
See also REACH Directive 2006/11/EC, E8 of the European Parliament and of the Council on the control of accidents involving dangerous substances.

EI	EN&RCN=ENTA3 HAOARDS	Quantity (1 100 t	Quantity (1 100 t
%C	F3A= A * 3E 3878BDS	%.000 t	%0.000 t
+-	petroleum product (a) gasoline and naphtha (<) 20% (including let fuel) (c) gas oil (including diesel fuel) 50% seating oil and gas oil (including fuel) (d) sea fuel oil	!.%00 t	!.%000 t
&CC;CH (&CC&)	/ 7-+ D		
&CC;E8 (Solvent)	/ 7-+ D		

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Notified under the REACH Regulation and is not classified as a substance of concern in the Annex (Data Sheet) as it is described in this section.

Health, Safety and Environment / The Chemical (Hazard) and Packaging (Su1; 11) Regulation (EC) No. 1907/2006
 Regulatory legislation / Control of Substances Hazardous to Health Regulation (EC) No. 3528/2003
 Classification / The = Annex of Health and Safety (at 4 or 2 Regulation 1999
 Health and Safety (at 4 or 2 Act 197-
 Environmental Protection Act 1990 Part 1 Subordinate (Regulation

15.2 Chemical Safety Assessment

This product contains hazardous or highly hazardous substances. Assessment is still required.

SECTION 16: Other information

Full text of H-Statements

H! " Flammable liquid and gas.
 H+0- = a (acute) fatal if swallowed and enters airways.
 H+1% Causes skin irritation.
 H+1 , Causes serious eye damage.
 H++% = a (causes) irritator (irritation).
 H++ " = a (causes) drowsiness or dizziness.
 H+7! Causes damage to organs through prolonged or repeated exposure.
 H-11 Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic Chronic aquatic toxicity (A1. Tox. Acute toxicity) /
 E (Eye) Dam. Serious eye damage /
 Fla. . . 3i? Flammable liquid /
 S2in Irrit. Skin irritation /
 STCT RE S1ecific target organ toxicity (repeated exposure) /
 STCT SE S1ecific target organ toxicity (single exposure) /
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route /
 CAS Chemical Abstracts Service /
 DNE3 Derived no-effect level /
 EC%0 Half maximal effect concentration /
) HS) L (Harmonized) /
 BATA International Air Transport Association /
 B=D) International = arities Code for Dangerous Goods /
 3C%0 = median lethal dose (the amount of material given all at once) /
 3D%0 = median lethal concentration (concentration of the chemical in air at 21% O2 of the test animal during the exposure period) /
 =AR ' C3 International Convention for the Protection of the Environment (S11) /
 CE3 197+ amended (the) Protocol of 197, /
 Ccu1ational E>1o\$ure 3i . it

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*T	Identified hazardous and toxic
NEC	Indicated no effect concentration
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) of the European Commission
S&HC	Substance of High Concern
# # *	Identified and/or (hazardous)

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



Changes as compared to previous version