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LITTLEJOHN
THE SILICONE SPECIALISTS

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SAFETY DATA SHEET (1907/2006/EC)
ALSIL 41891 SILICONE ELASTOMER COMPOUND

1) Identification of the substance/preparation and of the company/undertaking

1.1) Commercial Product Name	ALSIL 41891
1.2) Use of Preparation	Silicone Elastomer Compounds
1.3) Company Name	A Littlejohn Ltd, Address and Contact details as above
1.4) Emergency	A Littlejohn Ltd, Address and Contact details as above

2) Hazards Identification

2.1) Classification	This product is not a dangerous preparation within the meaning of Regulation (EC) No. 1272/2008
2.2) Label Elements	Labelling according to Regulation (EC) No. 1272/2008 No labelling according to GHS required. Safety Data Sheet available on request.
2.3	Other hazards No data available. Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

3) Composition. Information on ingredients

3.1) Substances	Not applicable
3.2) Mixtures	
3.2.1) Chemical Characteristics	Fluorosilicone
3.2.2) Hazardous Ingredients	

This material does not contain any ingredients above the permitted limit(s).

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The product contains the following substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts ≥ 0.1%:

4) First Aid Measures

4.1) Description of first aid measures

General Information	In case of accident or if you feel unwell seek medical advice (show label or SDS where possible)
After Inhalation	Material cannot be inhaled under normal conditions.
After contact with skin	Wipe off excess material with cloth or paper. Wash with plenty of water or soap and water. In the event of a visible skin change or other complaints, seek medical advice (Show SDS where possible).
After contact with eyes	Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.
After swallowing	Give several small portions of water to drink. Do not induce vomiting.
4.2) Most Important Symptoms and effects, both acute and delayed	Any relevant information can be found in other parts of this section.
4.3) Indication of any immediate medical attention and special treatment needed	Further toxicology information in Section 11 must be observed.

5) Firefighting Measures

5.1) Suitable extinguishing media	Water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand.
Extinguishing media which must not be used for safety Reasons	Water Jet

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5.2) Special hazards arising from substance or mixture	Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard. Hazardous combustion products: toxic and very toxic fumes.
5.3) Advice for Firefighters. Special protective equipment for fire fighting	Use respiratory protection independent of recirculated air. Keep unprotected persons away.

6) Accidental release measures

6.1) Personal precautions, protective equipment, and emergency procedures	Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk-through spilled material.
6.2) Environmental precautions	Prevent material from entering surface waters, drains or sewers and soil. Close leak, if possible, without risk. Retain contaminated water/ extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.
6.3) Methods and material for containment and cleaning up	Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.
6.4) Reference to other sections	Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (Section 8) and on disposal (Section 13)

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7) Handling Storage	
7.1) Precautions for safe handling	Observe information in Section 8. Observe the general rules for fire prevention.
7.2) Conditions for safe storage, including any incompatibilities	Observe local/state/federal regulations. Store in a dry and cool place.
7.3) Specific end use(s)	No data available

8) Exposure controls/personal protection	
8.1) Control parameters	Not applicable
8.2) Exposure Controls	
8.2.1) Exposure in the workplace limited and controlled	
General protection and hygiene measures	Observe standard industrial practices for the handling of chemical substances. Do not eat, drink or smoke when handling.
Personal Protection Equipment	**Respiratory protection** No personal respiratory protective equipment normally required. **Eye protection** Recommendation: protective goggles. **Hand protection** Use of protective gloves is recommended when handling the material. Recommended glove types: Protective gloves made of nitrile rubber thickness of the material: > 0,1 mm, Breakthrough time: > 480 min Recommended glove types: Protective gloves made of butyl rubber thickness of the material: > 0,3 mm. Breakthrough time: > 480 min Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the

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	numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.
8.2.2) Exposure to the environment limited and controlled.	Prevent material from entering surface waters, drains or sewers and soil.
8.3) Further information for system design and engineering measures	Observe information in section 7. Observe national regulatory requirements.

9) Physical and Chemical Properties

9.1) Information on basic physical and chemical properties

Property:	**Value:**	**Method:**
Appearance		
Physical state / form	**Paste**	
Colour	**BEIGE**	
Odour	**Faint**	
Odour limit	**No data available**	
PH Value	**Not applicable**	
Melting Point/freezing point	**Not applicable**	
Initial boiling point and boiling range	**Not applicable**	
Flash point	**Not applicable**	**(DIN 51376)**
Evaporation Rate	**No Data Available**	
Upper/Lower flammability or explosive limits	**Not Applicable**	
Lower Explosion Limit (LEL)	**Not Applicable**	
Upper Explosion Limit UEL)		
Vapour Pressure	**Not Applicable**	
Solubility (ies) - Water solubility/miscibility	**Virtually insoluble**	
Vapour Density – Relative Gas/Vapour density	**No Data known**	
Relative Density	**Approx. 1.40 (20°C)**	**(ISO 1183-1 A)**
Partition Coefficient: n-octanol/water	**No data known**	
Auto-ignition temperature	**No data known**	**(DIN 51974)**
Viscosity (Dynamic)	**Not applicable**	
Molecular Mass	**Not applicable**	

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9.2 Other Information	**No Data Available**

10) Stability and reactivity	
10.1-10.3) Reactivity; Chemical stability; Possibility of hazardous reactions	If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section
10.4) Conditions to Avoid	None known
10.5) Incompatible materials	None known
10.6) Hazardous decomposition products	If stored and handled properly; none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation

11) Toxicological Information	
11.1) Acute toxicity	According to present knowledge, the material is physiologically compatible and is not mutagenic, carcinogenic or teratogenic.
11.1.2) Skin Corrosion/Irritation	Not Irritating
11.1.3) Serious Eye Damage	Not Irritating
11.1.4) Respiratory or Skin sensitization	Not Sensitizing
11.1.5) Germ Cell Mutagenicity	For this endpoint, no toxicological test data is available for the whole product. Data on substances: Octamethylcyclotetrasiloxane (D4) Based on known data a significant mutagenic potential may be excluded. Decamethylcyclopentasiloxane (D5) Based on known data a significant mutagenic potential may be excluded.
11.1.6) Carcinogenicity	For this endpoint, no toxicological test data is available for the whole product. Data on substances: Octamethylcyclotetrasiloxane (D4) Weight of evidence does not support classification as a carcinogen. Decamethylcyclopentasiloxane (D5) Weight of evidence does not support classification as a carcinogen.

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11.1.7) Reproductive Toxicity	For this endpoint, no toxicological test data is available for the whole product. Data on substances: Octamethylcyclotetrasiloxane (D4) In rats inhalative exposure to D4(500,700ppm) significantly reduced the female fertility. There are currently no indications that the effects are of direct relevance to humans. D4 did not influence the male reproductive performance and did not induce developmental effects. Decamethylcyclopentasiloxane (D5) Based on the available data the criteria for classification as toxic to reproduction are not fulfilled
11.1.8) Specific Target Organ Toxicity (Single Exposure)	For this endpoint, no toxicological test data is available for the whole product.
11.1.9) Specific Target Organ Toxicity (Repeated Exposure)	For this endpoint, no toxicological test data is available for the whole product. Data on substances: Octamethylcyclotetrasiloxane (D4) Based on the available data the criteria for classification as toxic to repeated exposure are not fulfilled. Decamethylcyclopentasiloxane (D5) Based on the available data the criteria for classification as toxic to repeated exposure are not fulfilled.
11.1.10 Aspiration Hazard	Based on the physical-chemical properties of the product no aspiration hazard must be expected.

12) Ecological Information

12.1) Toxicity	Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product, no effects on aquatic organisms, relevant for classification, are expected. According to current knowledge adverse effects on water purification plants are not expected.
12.2) Persistence and degradability	Silicone content: biologically not degradable. Separation by sedimentation.

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12.3) Bioaccumalative potential	Polymer component: No adverse effects expected. Data on substances: Octamethylcyclotetrasiloxane (D4) Under controlled laboratory conditions D5 dissolved in water bioconcentrates in fish. However, available monitoring data indicate that the substance does not biomagnify in aquatic and terrestrial food webs in the environment. Decamethylcyclopentasiloxane (D5) Under controlled laboratory conditions D5 dissolved in water bioconcentrates in fish. However, available monitoring data indicate that the substance does not biomagnify in aquatic and terrestrial food webs in the environment. Dodecamethylcyclohexasiloxane (D6) Under controlled laboratory conditions D6 dissolved in water bioconcentrates in fish. However, available monitoring data indicate that the substance does not biomagnify in aquatic and terrestrial food webs in the environment.
12.4) Mobility in Soil	Silicone content: Insoluble in water. Octamethylcyclotetrasiloxance (D4) D4 has a very low water solubility, easily evaporates to air, and partitions to organic matter. It is degraded in air by reaction with hydroxyl radicals. In soil D4 is removed by several simultaneously occurring processes including volatilisation, hydrolysis and clay-catalysed degradation. Decamethylcyclopentasiloxane (D5) D5 has a very low water solubility, easily evaporates to air, and partitions to organic matter. It is degraded in air by reaction with hydroxyl radicals. In soil D5 is removed by several simultaneously occurring processes including volatilisation, hydrolysis and clay-catalysed degradation. Dodecamethylcyclohexasiloxane (D6) D6 has a very low water solubility, easily evaporates to air, and partitions to organic matter. It is degraded in air by reaction with hydroxyl radicals. In soil D6 is removed by several simultaneously occurring processes including volatilisation, hydrolysis and clay-catalysed degradation.
12.5) Results of PBT and vPvB assessment	The product contains substances >=0.1% that have been subjected to the SVHC process according to REACH regulation

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(EC) No 1907/2006 Art.57 as fulfilling the PBT and/or vPvB criteria according to REACH regulation (EC) No 1907/2006 Annex XIII.

Octamethylcyclotetrasiloxance (D4
D4 formally meets the criteria for PBT and vPvB substances according to regulation (EC) No. 1907/2006 (REACH), Annex XIII. However, D4 does not behave similarly to known vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by this reaction is not expected to deposit from the air to water, to land, or to living organisms.

Decamethylcyclopentasiloxane (D5)
D5 formally meets the criteria for vPvB substances according to regulation No. 1907/2006 (REACH), Annex XIII. However, D5 does not behave similarly to known vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by this reaction is not expected to deposit from the air to water, to land, or to living organisms.

Dodecamethylcyclohexasiloxane (D6)
D6 formally meets the criteria for vPvB substances according to regulation (EC) No. 1907/2006 (REACH), Annex XIII. However, D6 does not behave similarly to known vPvB substances. The weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 in air that does not degrade by this reaction is not expected to deposit from the air to water, to land, or to living organisms.

12.6) Other adverse effects	none known.
12.7) Additional Information	Easily separable from water by filtration.

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13) Disposal considerations

13.1) Waste Treatment Methods	
13.1.1) Material	Recommendation: Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.
13.1.2) Uncleaned packaging	Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.
13.1.3) Waste Disposal Legislation Ref. No. (EC)	It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

14) Transport Information

14.1-14.4) UN Number; UN proper shipping name; Transport hazard class(es); Packing group.	Not regulated for transport
14.5) Environmental hazards	Not hazardous
14.6) Special precautions for user	Relevant information in other sections has to be considered.
14.7) Transport in bulk according to Annex II of MARPOL and the IBC Code	Bulk transport in tankers is not intended

15) Regulatory Information

15.1) Safety, health, and environmental regulations/legislation specific for the substance or mixture	National and Local regulations must be observed. For information on labelling please refer to section 2 of this document. **Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving.** dangerous substances (Seveso III):

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	Not applicable **Relevant regulations:** SI 2002/1689: CHIP Regulations 2002 SI 2002/2677: COSHH Regulations 2002 SI 1999/3242: Management of Health & Safety at Work Regulations 1999 Health & Safety at Work Act 1974 SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations. Other national and local measures relating to the workplace, pollution control, environmental protection and waste control. **Other specifications, restrictions and prohibitions:** Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.
15.2) Chemical Safety Assessment	A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.
15.3) Details of international registration status	
European Economic Area (EEA) .....:	**REACH** (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
RoHS (Restriction of Hazardous Substances)	None of the substances mentioned in Directive 2015/863/EU. (RoHS) are intentionally introduced. Therefore, they are not. expected to be present in amounts exceeding the defined limit values.

16) Other Information

16.1) Material	Please note this is based on the supplier data for the base materials used within the compound, the material has not been tested and therefore results are expected to vary. The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements. The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the

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	product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.
16.2 Further Information	This version supersedes all previous versions