PRODUCT SAFETY DATA SHEET

REVISION: 2.0
DATE: 08/04/20

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: Polycraft S30 BASE
Use: Silicone rubber base.

Supplier: MB Fibreglass
Unit 17 & 20 Abbey Business Park
Mill Road, Newtownabbey
Co.Antrim
BT36 7EE
Tel: 02890 861992 (Office Hours Only)

2. HAZARD IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008:
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labeling according to Regulation (EC) No 1272/2008:
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards
This product contains dodecamethylcyclohexasiloxane (D6) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006

3. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical nature: Silicone elastomer

This product is a mixture.

CASRN EC-NO. INDEX-NO.	REACH REGISTRATION NUMBER	CONCENTRATION	COMPONENT	Classification: REGULATION (EC) No 1272/2008
PBT and vPvB substance				
CASRN 540-97-6 **EC-No.** 208-762-8 **Index-No.** -	-	>= 0.1 - <1.0%	Dodecamethyl cyclohexasiloxane	Not classified
Substances with a workplace exposure limit				
CASRN 14940-68-2 **EC-No.** 239-019-6 **Index-No.** -	-	>=1.0 - <10.0%	Zircon	Not classified

4. FIRST AID MEASURES

General advice:
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Wash off with plenty of water.

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed:
Aside from the information found under the Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indications of any immediate medical attention and special treatment needed
Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: Water spray Alcohol-resistant foam Carbon dioxide (CO2\) Dry chemical
Unsuitable extinguishing media: None Known.
Special hazards arising from the substance or mixture
Hazardous combustion products: Silicone oxides Carbon oxides Formaldehyde
Unusual Fire And Explosion Hazards: Exposure to combustion products may be a hazard to health.

Advice for firefighters
Firefighting Procedures: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for firefights: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear proper protective equipment. Avoid eye contact.
Precautions to protect the environment: None established, do not allow large quantities to enter drains.

Clean-up procedures: Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Handling precautions:	Local ventilation is recommended. Avoid eye contact.
Storage:	No special measures required.
Unsuitable packaging materials:	None known.
Incompatibilities:	None known.
Other information:	None known.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure controls for hazardous components:	None of the components have assigned exposure limits.
Exposure limits for S30 Base:	None of the components have assigned exposure limits.

Control parameters:

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of Listing	Value/Notation
Zircon	ACGIH	TWA	5 mg/m3 ,Zirconium
	ACGIH	STEL	10 mg/m3 ,Zirconium
	GB EH40	TWA	5 mg/m3 ,Zirconium
	GB EH40	STEL	10 mg/m3 ,Zirconium

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

Derived No Effect Level

Dodecamethyl cyclohexasiloxane

Workers

Acute systemic effects		Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	6.1mg/m3	n.a.	11mg/m3	n.a.	1.22 mg/m3

Consumers

Acute systemic effects			Acute local effects		Long-term systemic effects			Long-term local effects	
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	1.7 mg/kg bw/day	n.a.	1.5 mg/m3	n.a.	2.7 mg/m3	1.7 mg/kg bw/day	n.a.	0.3 mg/m3

Personal protective equipment:

Respiratory:	Not applicable.
Hand:	Use nitrile or vinyl gloves.
Eye:	Safety glasses.
Skin:	Additional protective equipment is not normally required.
Industrial Hygiene:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Form: Liquid Colour: Off white

Safety related information:

pH:	Not determined.
Boiling point/boiling range:	100C.
Melting point/melting range:	Not determined.
Flashpoint:	>100C
Flammability (solid, gas):	Not determined.
Autoflammability:	Not determined.
Explosive properties:	Not determined.
Oxidising properties:	Not determined.
Vapour pressure:	Not determined.
Specific gravity:	1.15
Solubility in water:	Not determined.
Solubility in fat:	Not determined.
Oil/water partition coefficient:	Not determined.
Other data:	
Vapour density(air=1):	Not determined.
Evaporation rate (ethyl eher=1):	Not determined.
Viscosity:	25000 mPa's
% Volatiles:	Not determined.
Molecular weight:	Not determined.

10. STABILITY AND REACTIVITY

Stability:	Stable.
Reactivity:	
Conditions to avoid:	None known.
Materials to avoid:	None known.
Hazardous decomposition products:	When the product is heated to 150C small amounts of formaldehyde vapour may be evolved and adequate ventilation must be provided.
Incompatible materials:	Oxidizing agents

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity

Acute oral toxicity
Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
As Product: Single dose oral LD50 has not been determined.
Based on information for component(s): Estimated
LD50, Rat, >5,000 mg/kg

Acute Dermal Toxicity
Prolonged skin contact is unlikely to result in absorption of harmful amounts.
As product: The dermal LD50 has not been determined.
Based on information for component(s): Estimated.
LD50, Rabbit,>2,000mg/kg

Acute inhalation toxicity
At room temperature, exposure to vapor is minimal due to low volatility; vaport from heated material may cause respiratory irritation.
As product: The LC50 has not been determined.

Skin corrosion/irritation
Brief contact is essentially nonirritating to skin.
Serious eye damage/eye irritation
May cause slight temporary eye irritation.
Corneal injury is unlikely.
Sensitization
For skin sensitization: No significant effect
For respiratory sensitization:
No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)
The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific Target Organ Systemic Toxicity (Repeated Exposure)
Based on available data for the component(s), repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity
No relevant data found.
Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.

COMPONENTS INFLUENCING TOXICOLOGY:
Dodecamethyl cyclohexasiloxane

Acute inhalation toxicity
The LC50 has not been determined.

Zircon

Acute inhalation toxicity
The LC50 has not been determined

12. ECOLOGICAL IMPACT

Ecotoxicological information appears in this section when such data is available.

Toxicity

Dodecamethyl cyclohexasiloxane

Acute toxicity to algae/aquatic plants

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility
ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, >0,002 mg/l

Chronic toxicity to aquatic invertebrates

No toxicity at the limit of solubility
NOEC, Daphnia magna (Water flea), 21 d 0.0046 mg/l

Zircon

Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

Acute toxicity to Aquatic invertebrates

Based on data from similar materials
EC50, Daphnia magna (Water flea), 48 Hour, > 100mg/l

Acute toxicity to algae/aquatic plants

Based on data from similar materials
NOEC, Chlorella vulgaris (Fresh water algae), 15 d, > 200mg/l

Persistance and degradability

Dodecamethyl cyclohexasiloxane

Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; hoever, these results do not necessarily mean that the material is not biodegradable under environmental conditions.
10-day Window; Fail
Biodegradation: 57%
Exposure Time: 28 d
Method: OECD Test Guideline 301B

Zircon

Biodegradability: Biodegradation is not applicable.

Bioaccumulative potential

Dodecamethyl cyclohexasiloxane

Bioaccumulation: Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).
Partition coefficient: N-octanol/water(log Pow): 8.87

Zircon

Bioaccumulation: Partitioning from water to n-octanol is not applicable.

Mobility in soil

Dodecamethyl cyclohexasiloxane

Potential for mobility in soil is very high (Koc between 0 and 50).

Zircon

No relevant data found.

Results of PBT and vPvB assessment

Dodecamethyl cyclohexasiloxane

Dodecamethyl cyclohexasiloxane (D6) meets the current REACh Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/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 reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

Zircon

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Other adverse effects

Dodecamethyl cyclohexasiloxane

This substance is not on the Montreal Protocol list of sub stances that deplete the ozone layer.

Zircon

This substance is not on the Montreal Protocol list of sub stances that deplete the ozone layer.

13. WASTE DISPOSAL

Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport (ADR/RID):

UN Number	Not applicable
UN proper shipping name	Not regulated for transport
Transport hazard classes	Not applicable
Packing group	Not applicable
Environmental Hazards	Not considered environmentally hazardous based on available data.
Special precautions for user	No data available.

Classification for SEA transport (IMO-IMDG):

UN number	Not applicable
UN proper shipping name	Not regulated for transport
Transport hazard classes	Not applicable
Packing group	Not applicable
Environmental hazards	Not considered as marine pollutant based on available data
Special precautions for user	No data available
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

UN Number	Not applicable
UN proper shipping name	Not regulated for transport
Transport hazard classes	Not applicable
Packing group	Not applicable
Environmental Hazards	Not applicable
Special precautions for user	No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

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

REACh Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user/s responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Authorization status under REACH:
The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

CAS-NO. 540-97-6	Name: Dodecamethyl cyclohexasiloxane

Authorization status: Listed in the candidate list of substances of very high concern for authorization
Authorization number: Not available

16. OTHER INFORMATION

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008
This product is not classified as dangerous according to EC criteria.

All information and instructions provided in this Safety Data Sheet are based on the current state scientific and technical knowledge at the date indicated on this sheet. MB Fibreglass shall not be held responsible for any defect in the product covered by this sheet should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.