



**MATERIAL SAFETY DATA SHEET FOR
BOSS SILICONE SEALANT – 88013621 & 88013610**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	Sealant
Intended use:	General purpose sealant suitable for all sealing and jointing applications
Trade Name:	BOSS Silicone Sealant
Supplier of product:	The BSS Group Ltd
Registered Office:	Travis Perkins PLC, Lodge Way House, Lodge Way, Harlestone Road, Northampton NN5 7UG.
Telephone/Fax Numbers:	0116 245 5500 / 0116 218 2214
E-mail Address	reception@bssgroup.com
Web site Address	www.bssindustrial.co.uk

2. HAZARD IDENTIFICATION

Classification of the substance or mixture:	
Product definition:	Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown Toxicity:	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 64.6%
Ingredients of unknown Ecotoxicity:	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 64.6%
Classification according to Directive 1999/45/EC [DPD]:	The product is classified as dangerous according to Directive 1999/45/EC and its amendments.
Classification	R66 N; R51/53
Human health hazards:	Repeated exposure may cause skin dryness or cracking.
Environmental hazards:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.	
Label elements	
Signal word:	No signal word.
Hazard statements:	No known significant effects or critical hazards.



2. HAZARD IDENTIFICATION (cont.)

Precautionary statements	
General:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.
Disposal:	Not applicable.
Supplemental label Elements:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	Not applicable.
Special packaging requirements	
Containers to be fitted with child-resistant fastenings:	Not applicable.
Tactile warning of danger:	Not applicable.
Other hazards	
Other hazards which do not result in classification:	None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Mixtures					
Product/ingredient Name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Middle Petroleum Distillates	EC: 265-148-2 CAS: 64742-46-7 Index: 649-221-00-X	>=20 - <25	Xn; R65 R66	Asp. Tox. 1, H304	[1]
Light Aliphatic Hydrocarbon	EC: 265-149-8 CAS: 64742-47-8 Index: 649-422-00-2	<10	Xn; R65 See Section 16 for the full text of the R-phrases declared above.	- See Section 16 for the full text of the H statements declared above.	[1]
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.					
Type [1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII [5] Substance of equivalent concern Occupational exposure limits, if available, are listed in Section 8.					



4. FIRST AID MEASURES

General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Get immediate medical attention.
Protection of first-aiders:	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.
Most important symptoms and effects, both acute and delayed	
<p>There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.</p> <p>Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.</p> <p>Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.</p> <p>If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.</p> <p>This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.</p>	
Indication of any immediate medical attention and special treatment needed	
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.



5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Recommended: alcohol-resistant foam, carbon dioxide, powders.
Unsuitable extinguishing media:	Do not use water jet.
Special hazards arising from the substance or mixture	
Hazards from the substance or mixture:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. Appropriate breathing apparatus may be required.
Advice for firefighters	
Special protective actions for fire-fighters:	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters:	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. Keep unnecessary and unprotected personnel from entering.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.



7. HANDLING AND STORAGE:

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).	
Precautions for safe handling:	<p>Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.</p> <p>In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.</p> <p>Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.</p> <p>Operators should wear antistatic footwear and clothing and floors should be of the conducting type.</p> <p>Keep away from heat, sparks and flame. No sparking tools should be used.</p> <p>Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Never use pressure to empty. Container is not a pressure vessel.</p> <p>Always keep in containers made from the same material as the original one.</p> <p>Comply with the health and safety at work laws.</p> <p>Do not allow to enter drains or watercourses.</p>
Information on fire and explosion protection:	Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations.
Notes on joint storage	Keep away from: oxidising agents, strong alkalis, strong acids.
Additional information on storage conditions	<p>Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking.</p> <p>Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</p> <p>Contaminated absorbent material may pose the same hazard as the spilt product.</p>
Specific end use(s)	
Recommendations	Not available.
Industrial sector specific solutions:	Not available.
<p>Good housekeeping standards, regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.</p> <p>Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations</p>	



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)	
Control parameter	
Occupational exposure limits:	No exposure limit value known
Recommended monitoring Procedure:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required:
DNELs/DMELs:	No DNELs/DMELs available.
PNECs:	No PNECs available
Exposure controls	
Appropriate engineering Controls:	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection measures	
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Use safety eyewear designed to protect against splash of liquids.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION (cont.)

Skin protection	
Hand protection	Wear suitable gloves tested to EN374.
Gloves	<p>Short Term Exposure less than 10 minutes Continuous use Nitrile gloves. Hazardous ingredients Section 3 For more than 4 hours of protection in the presence of Butanone Acetone or Methyl isobutyl ketone Butyl gloves 0.7mm. For more than 4 hours of protection in the presence of Aromatic solvent use polyvinyl alcohol (PVA) gloves. Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time) . There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.</p>
Body protection	<p>Personnel should wear antistatic clothing made of natural fibres or of high temperature-resistant synthetic fibres. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</p>
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Approved/certified respirator with organic vapour cartridge. Filter type: A2P2 (EN14387).
Environmental exposure controls	Do not allow to enter drains or watercourses.
Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.	



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state:	Liquid. [Paste]
Colour:	Various
Odour:	Acetic acid.
Odour threshold:	Not Available (Not Tested).
pH:	Testing not technically possible.
Melting point/freezing point:	Not Available (Not Tested).
Initial boiling point and boiling range:	Not Available (Not Tested).
Flash point:	Closed cup: >93.3°C
Evaporation rate:	Slower than Ether Phase
Flammability (solid, gas):	Not Available (Not Tested).
Burning time:	Not Available (Not Tested).
Burning rate:	Not Available (Not Tested).
Upper/lower flammability or explosive limits:	Not Available (Not Tested).
Vapour pressure:	Not Available (Not Tested).
Vapour density:	Not Available (Not Tested).
Relative density:	Not Available (Not Tested).
Solubility(ies):	Not Available (Not Tested).
Solubility in water:	Not Available (Not Tested).
Partition coefficient: n-octanol/ water:	Not Available (Not Tested).
Auto-ignition temperature:	Not Available (Not Tested).
Decomposition temperature:	Not Available (Not Tested).
Viscosity:	Not Available (Not Tested).
Explosive properties:	Not Available (Not Tested).
Oxidising properties:	Under normal conditions of storage and use, hazardous reactions will not occur.

10. STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid:	When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.	



11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.	
Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.	
Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.	
If splashed in the eyes, the liquid may cause irritation and reversible damage.	
Ingestion may cause nausea, diarrhea and vomiting.	
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.	
Acute toxicity	
Product/ingredient name	Result
No data available	
Acute toxicity estimates:	No data available
Irritation/Corrosion:	No data available
Sensitisation:	No data available
Mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Teratogenicity:	No data available

Specific target organ toxicity (single exposure)			
Product/ingredient name	Category	Route of exposure	Target organs
No data available			
Aspiration hazard			
Product/ingredient name		Result	
Middle Petroleum Distillates		ASPIRATION HAZARD - Category 1	
Light Aliphatic Hydrocarbon		ASPIRATION HAZARD - Category 1	
Other information	Not available.		



12. ECOLOGICAL INFORMATION

Toxicity			
There are no data available on the mixture itself. Do not allow to enter drains or watercourses.			
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.			
Product/ingredient name	Result	Species	Exposure
Light Aliphatic Hydrocarbon	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days
Persistence and degradability			
Product/ingredient name	Test	Result	Inoculum
No data available			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
No data available			
Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
No data available			
Mobility in soil			
Soil/water partition coefficient (KOC):	Not available.		
Mobility:	Not available.		
Results of PBT and vPvB assessment			
PBT:	Not applicable.		
vPvB:	Not applicable.		
Other adverse effects:	No known significant effects or critical hazards. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers		

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).	
Waste Treatment Methods	
Product	
Methods of disposal:	The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste:	Yes.
Disposal considerations:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
European waste catalogue (EWC)	
The European Waste Catalogue classification of this product, when disposed of as waste, is:	
Waste code	Waste designation
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09



13. DISPOSAL CONSIDERATIONS (cont.)

Packaging	
Methods of disposal:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations:	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC) Contaminated packaging:	Recycling possible. Ensure packaging is completely empty before recycling. Dispose of uncured residues in the same way as the product itself. Plastic articles 15 01 02 - metallic packaging 15 01 04 - mixed packaging 15 01 06. 15 01 10* packaging containing residues of or contaminated by dangerous substances
Special precautions:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport Hazard Class(es)/ Label(s)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

Do not carry by air without prior consent of the airline

Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.
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Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.



15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No. 1907/2006 (REACH)	
Annex XIV - List of substances subject to authorisation	
Annex XIV:	None of the components are listed.
Substances of very high concern:	None of the components are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	Not applicable.
Other EU regulations	
Seveso II Directive :	This product is not controlled under the Seveso II Directive.
Chemical Safety Assessment:	This product contains substances for which Chemical Safety Assessments are still required

16. OTHER INFORMATION

Abbreviations and acronyms	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
Hazard pictograms	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classification	Justification
Not classified.	
Full text of abbreviated H statements	H304 May be fatal if swallowed and enters airways.
Full text of classifications [CLP/GHS]	Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
Full text of abbreviated R phrases:	R65- Harmful: may cause lung damage if swallowed. R66- Repeated exposure may cause skin dryness or cracking. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications [DSD/DPD]	Xn - Harmful N - Dangerous for the environment



16. OTHER INFORMATION (cont.)

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.