

MATERIAL SAFETY DATA SHEET

SILCONE SEALANT

Section 1. Identification

Product Code MSDS Number Chemical name Recommended use Importer/Company Name	 : AMASC : 56676 : Not available : Silicone Elastomer Jonsa Australia Pty Ltd Lidcombe Business Park Unit D2, 3 – 29 Birnie Avenue Lidcombe NSW 2141
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Responsible Department	Product & Engineering

Section 2. Hazards identification

EMERGENCY OVERVIEW:

Form: Paste Colour: Colourless. Odour: Faint odour. May cause an allergic skin reaction.

Classification of the substance or : SKIN SENSITISATION - Category 1 mixture

GHS label elements

Hazard pictograms

:

:

Signal word Hazard statements



May cause an allergic skin reaction.

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Precautionary statements

General	: Not applicable.
Prevention	: Wear protective gloves. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical/chemical hazards Human health hazards Environmental hazards Other hazards which do not result in classification	 Not applicable. May cause an allergic skin reaction. Not applicable. None known.

Section 3. Composition/information on ingredients

Substance/mixture:MixtureChemical name:Not available

Hazardous ingredient name	% by weight	CAS number
2-Butanone, 2,2',2"-[O,O',O"-(methylsilylidyne)trioxime]	1 - 5	22984-54-9

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 and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the : upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. Inhalation Remove victim to fresh air and keep at rest in a position comfortable : for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact Inhalation	 No known significant effects or critical hazards. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate medical attent	ion and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first aid personnel	: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	:	water jet

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Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for containn	nent a	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None. Recommended monitoring procedures	:	
Appropriate engineering controls Environmental exposure controls	:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures Eye/face protection	:	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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used the analysis.
		used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	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.
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.
<u>Respiratory protection</u>	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. Gas mask for organic gas if MEKO exposure limits are exceeded (3 ppm 8-hr TWA, recommended workplace exposure guideline.

Section 9. Physical and chemical properties

Appearance

Physical state Colour	:	Paste Colourless.
Odour Odour threshold pH Melting point	: : :	Faint odour. Not available Not available Not applied
Boiling point	:	Not applied
Flash point	:	81 °C (177.80 °F)
Burning time Burning rate Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapour pressure	::	Not available Not available Not available Not available Lower: Not available Upper: Not available Not applied
Vapour density Relative density Density	:	Not available Not available 1.03 g/cm3
Solubility Solubility in water	:	Not available Insoluble
Partition coefficient: n-	:	Not available

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Octanol / water		
Auto-ignition temperature	: 450 °C (842.00 °F)	
Decomposition temperature	: Not available	
SADT	: Not available	
Viscosity	: Dynamic: Not available	
	Kinematic: Not available	

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions	 Stable under normal conditions. The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid Incompatible materials Hazardous decomposition products	 No specific data moisture. No specific data. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Reacts with water/moisture liberating Methylethylketoxime (MEKO) = 2-Butanone-oxime.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/Summary <u>Irritation/Corrosion</u>	: Not available
Conclusion/Summary Skin eyes Respiratory <u>Sensitization</u>	Not availableNot availableNot available
Conclusion/Summary Skin Respiratory	Not availableNot available
<u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u>	: Not available
Conclusion/Summary <u>Reproductive toxicity</u>	: Not available
Conclusion/Summary	: Not available

<u>Teratogenicity</u> Conclusion/Summary

: Not available

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Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Product/ingredient name		tegory	Route of exposure	Target organs
2-Butanone, 2,2',2"-[O,O',O"-		egory 2	•	cardiovascular system
(methylsilylidyne)trioxime]				
Aspiration hazard Not available				
Information on the likely routes of exposure	:	Not available		
Potential acute health effects				
Eye contact	:	No known significa	int effects or critical has	zards
Inhalation	:		position products may	
		Serious effects may	be delayed following	
Skin contact	:	May cause an allerg	-	
Ingestion	:	No known significa	int effects or critical has	zards.
Symptoms related to the physical	cher	nical and toxicologi	cal characteristics	
Eye contact	:	No specific data.		
Inhalation	:	No specific data.		
Skin contact	:	1	may include the follow	ving:
		irritation		0
		redness		
Ingestion	:	No specific data.		
Delayed and immediate effects and	also	chronic effects fron	n short and long term	exposure
Short term exposure				
Potential immediate effects	:	Not available		
Potential delayed effects	:	Not available		
Long term exposure				
Potential immediate effects	:	Not available		
Potential delayed effects	:	Not available		
Potential chronic health effects				
Conclusion/Summary	:	Not available		
General	:	· · · · · · · · · · · · · · · · · · ·	evere allergic reaction	may occur when
Carcinogenicity			ed to very low levels. nt effects or critical haz	ards
Mutagenicity			nt effects or critical haz	
Teratogenicity			nt effects or critical haz	
Developmental effects			nt effects or critical haz	
Fertility effects	:	No known significat	nt effects or critical haz	ards.
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: This product will liberate methyl-ethyl-ketoxime (MEKO) on curing, contact with water or moisture in the air.

The toxicity of pure MEKO is characterized by:

Mild skin irritation, severe eye irritation, and systemic toxicity after inhalation or long term exposure. The acute inhalation 4-hr LC50 was > 4.8 mg/L.

Long-term inhalation studies (>28 days) with 2-butanone-oxime in male rats and mice showed at concentrations of 10 ppm and higher atrophy of the mucous membrane of the nose in rats and mice. This effect is most probably due to the irritating potential of 2-butanone-oxime.

Central nervous system effects (motor function, narcotic), which were reversible, when exposure is terminated, were observed at high concentrations. Acute exposure to 400 ppm in air caused effects on blood chemistry (methemoglobinemia).

MEKO has been shown to elicit skin sensitization in Guinea pigs, but no sensitization has been reported in humans.

After life long inhalation exposure to the maximum concentration of 375 ppm liver carcinomas were observed in male rats and mice. In male rats exposed to concentrations of 75 ppm benign liver tumours were observed. The lowest test concentration of 15 ppm caused no tumours.

The relevance of these tumours to humans is unknown.

Section 12. Ecological information

Ecotoxicity				
Conclusion/Summary	:	Not available		
Persistence/degradability				
Conclusion/Summary	:	Not available		
Bioaccumulative potential Not available				
Product/Ingredient name	Lo	g Pow	BCF	Potential
<u>Mobility in soil</u>				
Soil/water partition coefficient (KOC)	:	Not available		
Other adverse effects	:	No known signific	ant effects or critical h	azards.

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Section 13. Disposal considerations

Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized 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.
Packaging	1 5
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Section 14. Transport information

*PG: Packing group

Special precautions for user	national and goods. Keep away t	Keep away from foodstuffs and animal feed. Keep away from odour
		sensitive materials and protect from moisture.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

Section 15. Regulatory information

National regulations

The following regulations, rules or standards set forth the requirement for the use, handling, storage, transportation, classification and labelling of chemical product.

- Regulations on Safety Administration of Hazardous Chemicals
- · Regulation of Safety Use Chemicals at Workplace
- Regulations on Labour Protection in Workplaces Where Toxic Products Are Used
- GB/T 16483: Safety data sheet for chemical products Content and order of sections
- GB 15258: General rules for preparation of precautionary label for industrial chemicals
- GB 30000.2 ~ GB 30000.29: Rules for classification and labelling of chemicals
- · GB 13690: General rule for classification and hazard communication of chemicals

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- GB 12268: List of dangerous goods
- GB 6944: Classification and code of dangerous goods
- GB 190: Labels for packages of dangerous goods
- GB/T 15098: The principle of classification of transport packaging groups of dangerous goods

• GBZ 2.1: Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents

Treat and dispose of the waste in compliance with the applicable environmental protection and waste disposal legislation.

China inventory (IECSC)

All components are listed or exempted.

AMASC International regulations International lists

 Australia inventory (AICS) All components are listed or exempted. Canada inventory Not determined. Japan inventory All components are listed or exempted. Korea inventory All components are listed or exempted. New Zealand Inventory (NZIoC) All components are listed or exempted. Philippines inventory (PICCS) All components are listed or exempted. United States inventory (TSCA 8b) Not determined. Taiwan inventory (CSNN) All components are listed or exempted.

Section 16. Other information

History

Date of printing Date of issue/Date of revision Date of previous issue Version Prepared by Key to abbreviations	20/02/2017 20/02/2017 20/02/2017 .2 Product Safety Stewardship ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor 3HS = Globally Harmonized System of CL ATA = International Air Transport Assoc BC = Internediate Bulk Container MDG = International Maritime Dangerou: .ogPow = logarithm of the octanol/water p AARPOL 73/78 = International Conventio thips, 1973 as modified by the Protocol of JN = United Nations	iation s Goods partition coefficient on for the Prevention of Pollution From
References	Not available	

Further Information

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.