

# Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** SILICONE SEALANT S601

**Recommended Use:** Sealant & Adhesive

**Supplier:** Selleys Australia, a division of DuluxGroup (Australia) Pty Ltd

**ABN:** 67 000 049 427

**Street Address:** 1 Gow Street Padstow 2211 Australia

**Telephone Number:** +61 2 9781 8777

**Facsimile:** +61 2 9781 8825

**Emergency Telephone:** 1 800 033 111 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

**Overall Hazard Classification:** Serious eye damage/eye irritation: Category 2  
Skin sensitization: Category 1  
Chronic aquatic hazard: Category 3

**Hazard Information:** Causes serious eye irritation.  
May cause an allergic skin reaction.  
Harmful to aquatic life with long lasting effects.

**Precautionary Statement:** Skin Contact and Accidental Ingestion.  
**Prevention:** Wash hands thoroughly after handling  
Wear suitable protective clothing and gloves  
Avoid breathing dust/fume/gas/mist/vapours/spray  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Avoid contact with skin and eyes.  
Use only outdoors or in a well ventilated area.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists, get medical advise/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advise/attention.  
Take necessary specific treatment.  
Wash contaminated clothing before reuse.

**Storage:** Not applicable

**Disposal:** Dispose of contents/container by the special waste disposal trader who receives the permission of metropolis and districts governor.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion Risk	Phrases
Hydrotreated middle Petroleum distillates	64742-46-7	5 - <10	Not Hazardous Harmful: May cause lung damage if swallowed
Methyl Tri(ethylmethoxy)silane	22984-54-9	1 - <5	Flammable liquid: Category 4 Acute toxicity(Oral): Category 5 Serious eye damage/eye irritation: Category 2 Skin sensitization: Category 1 Specific target organ toxicity – repeated Exposure (Oral): Category 2 (blood)
Vinyltri (Methylethylketoxime) Silane	2224-33-1	1 - <5	Flammable liquid: Category 4 Serious eye damage/eye irritation: Category 1 Skin sensitization: Category 1 Specific target organ toxicity – repeated Exposure (Oral): Category 2 (blood)
Iron oxide	1309-37-1	1 - <5	Not hazardous
Methylketoxime	96-29-7	0.1 - <1	Flammable liquid: Category 4 Acute toxicity (Oral) Category 5 Acute toxicity (Dermal): Category 4 Serious eye damage/eye irritation: Category 1 Skin sensitization: Category 1 Carcinogenicity(Inhalation – vapour): Category 2
10, 10 – oxydiphenoxarsine	58-36-6	<0.1	Acute toxicity (Oral): Category 2 Acute toxicity (Dermal) : Category 3 Acute toxicity (Inhalation – vapour): Category 2 Skin corrosion/irritation: Category 1B Serious eye damage/irritation: Category 1 Specific target organ toxicity – repeated Exposure (Oral): Category 1 Acute Aquatic Hazard : Category 1 Chronic aquatic hazard: Category 1

Other ingredient not listed in this section are non-hazardous or business confidential.

### 4. FIRST AID MEASURES

**Eye:** Immediately flush with water for 15 minutes. Get medical attention

<b>Skin:</b>	Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist.
<b>Inhalation:</b>	Remove to fresh air. Get medical attention if ill effects persist.
<b>Ingestion:</b>	Get medical attention.
<b>Comments:</b>	Treat according to person's condition and specifics of exposure.
Note to physicians:	Treat symptomatically. For further information, the Medical Practitioner should refer to the phone number in Section 1.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	On large fires use dry chemical or foam. On small fires use CO2 or dry chemical. Water can be used to cool fire exposed containers.
<b>Unsuitable Extinguishing Media:</b>	Water. Do not allow extinguishing media to contact container contents.
<b>Specific Hazards Arising From chemical:</b>	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Nitrogen Oxides. Metal oxides. Chlorine compounds.
<b>Special Fire Fighting:</b>	Determine the need to evacuate or isolate the area according to your local emergency plan.
<b>Procedure &amp; Equipment:</b>	Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid skin and eye contact. Avoid breathing vapor. Do not take internally.

**Environmental Precautions:** Do not allow large quantities to enter drains or surface waters.

**Methods for cleaning up:** Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and 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 laws and regulations are applicable.

## 7. HANDLING AND STORAGE

**Handling Precautions:**

Use with adequate ventilation. Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during

use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus. Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

**Storage Conditions:**

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limit Values, Biological Limit Values**

**Industrial Hygiene Standards:**

<b>Ingredients</b>	<b>CAS No.</b>	<b>Exposure Limits</b>
Hydrotreated middle petroleum distillates	64742-46-7	OSHA PEL (final rule) and ACGIH TLV for oil mists: TWA 5 mg/m <sup>3</sup>
Methyl tri(ethylmethylketoxime) silane	22984-54-9	See ethyl methyl ketoxime comments.
Vinyltri(methylmethylketoxime) silane	2224-33-1	See ethyl methyl ketoxime comments.
Iron oxide	1309-37-1	Korea OEL:TWA 0.1ppm (0.8mg/m <sup>3</sup> ) as Fe STEL 0.2ppm (1.6mg/m <sup>3</sup> ) OSHA PEL (Final rule) (fume): TWA 10mg/m <sup>3</sup> . ACGIH TLV:TWA 5mg/m <sup>3</sup> respirable fraction.
Methylethyketoxime	96-29-7	Vendor guide: TWA 3 ppm, STEL 10ppm
10,10-Oxydiphenoxarsine	58-36-6	Korea OEL: TWA TWA 0.2mg/m <sup>3</sup> as As None established

Ethyl methyl ketoxime is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the following exposure guidelines: Vendor guide TWA: 3 ppm, STEL: 10 ppm.

**Engineering Controls**

**Local Ventilation:** Recommended.

**General Ventilation:** Recommended.

**Personal Protective Equipment for Routine Handling**

**Respiratory protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

**Suitable Respirator:** Organic Vapor Type.

<b>Eye protection:</b>	Use proper protection - safety glasses as a minimum.
<b>Hand protection:</b>	Chemical protective gloves should be worn.
<b>Skin protection:</b>	Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.
<b>Hygiene Measures:</b>	Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

### Personal Protective Equipment for Spills

<b>Respiratory protection:</b>	Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.
<b>Eye protection:</b>	Use full face respirator.
<b>Skin protection:</b>	Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.
<b>Precautionary Measures:</b>	Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.
<b>Comments:</b>	Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection.

\*Note: There precautions are for room temperature handling. Use at elevated temperature or aerosol/spray application may require added precautions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b>	Paste
<b>Color:</b>	Clear/White
<b>Odor:</b>	Some odor
<b>pH:</b>	Not determined.
<b>Solubility in Water:</b>	Not determined.
<b>Boiling Point:</b>	Not determined.
<b>Melting Point:</b>	Not determined.
<b>Flash Point:</b>	100°C (Seta Closed Cup)
<b>Evaporation Rate:</b>	Not determined.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Upper/ Lower Flammability or Explosive Limit:</b>	
<b>Upper Limit:</b>	Not determined.
<b>Lower Limit:</b>	Not determined.
<b>Vapor Pressure @ 25°C:</b>	Not determined.
<b>Solubility in Water:</b>	Not determined.
<b>Vapour Density (air=1):</b>	Not determined.
<b>Specific Gravity:</b>	0.985
<b>Octanol/water partition coefficient:</b>	Not determined.
<b>Autoignition Temperature:</b>	Not determined.
<b>Decomposition</b>	Not determined.

**Temperature:**  
**Viscosity:** Not determined.  
**Molecular Weight:** Not determined.

The above information is not intended for use in preparing product specifications.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable. Hazardous polymerization will not occur.  
**Conditions to Avoid:** None.  
**Materials to Avoid:** Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form.  
**Hazardous Decomposition Products:** Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde. Nitrogen Oxides. Metal Oxides. Sulfur Oxides, Chlorine compounds.  
**Hazardous Polymerization:** Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Information on the likely Routes of Exposure:

**Respiratory:** Exposure is unexpected.  
**Oral:** Exposure is expected.  
**Eye, Skin:** Exposure is expected.

### Information on the Health Hazards

#### Acute Toxicity:

CAS Number	Component Name	Acute Toxicity
64742-46-7	<b>Hydrotreated middle petroleum Distillates</b>	LD50: > 20,000 mg/kg - Oral Rat LD50: > 2,000 mg/kg - Dermal Rabbit
22984-54-9	Methyl tri(ethylmethylketoxime) silane	LD50: > 2,520 mg/kg - Oral Rat
2224-33-1	Vinyltri (methylethylketoxime) silane	LD50: > 2,000 mg/kg - Oral Rat LD50: > 2,000 mg/kg - Dermal Rat
96-29-7	Methylethylketoxime	LD50: 2,326 mg/kg - Oral Rat LD50: < 1,800 mg/kg - Dermal Rabbit
58-36-6 10,10-	Oxydiphenoxarsine	LD50: 40 mg/kg - Oral Rat LD50: 414 mg/kg - Dermal Rabbit

**Eyes:** Direct contact may cause severe irritation.  
**Skin:** May cause mild irritation. Repeated skin contact may cause allergic skin reaction.  
**Inhalation:** Irritates respiratory passages very slightly. Vapours evolved during curing may cause dizziness.  
**Ingestion:** Low ingestion hazard in normal use.

**Chronic Toxicity:**

**Skin:** Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.

**Inhalation:** Prolonged or repeated exposure by inhalation may injure internally.

**Ingestion:** Repeated ingestion or swallowing large amounts may injure internally.

**Other Health Hazard Information:** During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Long-term or repeated exposure to high concentrations of oxime-silanes may cause narcotic type effects on the nervous system, harmful effects on the blood (anemia) and irritate nasal passages, but these effects are reversible and not considered serious. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumor rates.

**Skin Corrosion/ Irritation:** Please refer to Section 3.

**Serious Eye Damage/ Irritation:** Please refer to Section 3.

**Respiratory Sensitization:** Please refer to Section 3.

**Skin Sensitization:** Please refer to Section 3.

**Carcinogenicity:**

CAS Number	Chemical Name	% (w/w)	Remarks
96-29-7	Methylethylketoxime	0.1 - <1	Annex I of EU Directive 67/548/EEC- Carc. Cat. 3 (Substances which cause concern for man owing to possible carcinogenic effects).

**Germ Cell Mutagenicity:** Please refer to Section 3.

**Reproductive Toxicity:** Please refer to Section 3.

**Specific Target Organ.** Please refer to Section 3.

**Systemic Toxicity (Single Exposure):**

**Specific Target Organ.** Please refer to Section 3.

**Systemic Toxicity**

**(Repeated Exposure):**

**Aspiration Hazard:** Please refer to Section 3.

## 12. ECOLOGICAL INFORMATION

**Environmental Effects**

**Acute:** Harmful to aquatic life. However, due to the physical form and water-insolubility of the product the bioavailability is negligible.

**Chronic:** Harmful to aquatic life with long lasting effects. However, due to the physical form and water-insolubility of the product the bioavailability is negligible.

**Persistence and Degradability:**

**Environmental Fate and Distribution:** This product is a solid and does not contain significant concentrations of water soluble constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.

**Water:** Solid material, insoluble in water.

**Bioaccumulative Potential:**

**Bioaccumulation:** No bioaccumulation potential. This product is a solid which is not soluble in water and if ingested will not be absorbed.

**Mobility in Soil:** None known.

**Additional Environmental Information:**

**Fate and Effects in Waste** No adverse effects on bacteria are predicted.

**Water Treatment Plants:**

**13. DISPOSAL CONSIDERATIONS**

**Product Disposal:** Dispose of in accordance with local regulations.

**Packaging Disposal:** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**Road and Rail Transport**

Not applicable

**Marine Transport**

Not subject to IMDG code

**Air Transport**

Not subject to IATA regulations.

**Transport Precautions**

Transport in accordance with the relevant regulations. Refer to section 7.2 for further information on transportation requirements. Refer to section 6 for the safety measures to be taken in the event of accidental release.

**15. REGULATORY INFORMATION**

**Classification and labeling in accordance with Industrial Safety and Health Law:**

**Harmful Substances Prohibited from Manufacturing:** No subject chemicals

**Harmful Substances Requiring Permission:** No subject chemicals

**Controlled Hazardous Substances:**

Chemical Name	CAS No.	Limit%(w/w)	% (w/w)	Remark
Iron oxide	1309-37-1	1 %	1 - <5	Metals

**Chemicals controlled in accordance with Toxic Chemicals Control Act:**

**Toxic Chemicals:** No subject chemicals

**Observational Chemicals:** No subject chemicals



**Prohibited Chemicals:** No subject chemicals

**Restricted Toxic Chemicals:** No subject chemicals

**Korean TRI Chemicals:** No subject chemicals

**Accident Release Prevention Chemicals:** No subject chemicals

**Hazardous Material Safety Management Act:**

**Classification:** Not applicable for Fire Law.

**Wastes Management Act:** Product should be disposed of in accordance with Waste Management Law Article 13.

**Other Local or International Regulations:**

**Chemical Inventories:**

<b>AICS:</b>	All ingredients listed or exempt.
<b>IECSC:</b>	All ingredients listed or exempt.
<b>PICCS:</b>	All ingredients listed or exempt.
<b>KECL:</b>	All ingredients listed, exempt or notified.
<b>HSNO:</b>	All ingredients listed or exempt.
<b>EINECS:</b>	Not determined.
<b>TSCA:</b>	Not determined.
<b>ENCS/ISHL:</b>	Not determined.
<b>DSL:</b>	Not determined.

## 16. OTHER INFORMATION

For further copies of this sheet or other product information contact Selleys Customer Service.

Phone: 1300 555 205 (Australia wide)

Fax: 1300 555 305 (Australia wide)

Phone: 9 820 4852 (New Zealand)

Fax: 0800 804 583 (New Zealand)

**Reason(s) for Issue:**

Revised Primary MSDS

This safety data sheet has been prepared by SH&E Shared Services.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DuluxGroup Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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