

## SAFETY DATA SHEET

24200-1624

## 1. Identification

Product identifier Adhesive

Other means of identification

Sales Code

Recommended use Industrial use only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Name Alvisa Corporation

Address 1107 Fair Oaks Avenue #247

Contact Vicki Harrison

Telephone Number 541-508-8223

Emergency Phone Number Chemtrec: +1-800-424-9300 (Within US)

Chemtrec: +1-703-527-3887 (Outside US)

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Reproductive toxicity (fertility)

Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

\*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements



Signal word Warning

Hazard statement Suspected of damaging fertility.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If exposed or concerned: Get medical advice/attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

HMIS® ratings

Health: 1\*

Flammability: 1

Physical hazard: 0

## 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dimethylpolysiloxane		63148-62-9	90 - 100
Decamethylcyclotetrasiloxane		541-02-6	0.3 - 1
Octamethylcyclotetrasiloxane		556-67-2	0.1 - 0.3

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash skin with soap and water.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes.
Ingestion	Rinse mouth. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Treat symptomatically.
General information	IF exposed or concerned : Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water spray. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	By heating and fire, harmful vapors/gases may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate sources of ignition. Stop the flow of material, if this is without risk.
Environmental precautions	Never return spills in original containers for re-use. Collect for salvage or disposal. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Provide adequate ventilation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. When curing do not breathe vapor. When curing provide adequate ventilation.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Keep in original container.
8. Exposure controls/personal protection	
<b>Occupational exposure limits</b> The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.	
<b>US. Workplace Environmental Exposure Level (WEEL) Guides</b>	
<b>Components</b>	<b>Type Value</b>
Decamethylcyclopentasiloxane (CAS 541-02-6)	TWA 10 ppm
Octamethylcyclotetrasiloxane (CAS 556-67-2)	TWA 10 ppm
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide eyewash station.
<b>Individual protection measures, such as personal protective equipment</b>	
Eye/face protection	Tightly sealed safety glasses according to EN 166.
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<b>Skin protection</b>	Wear appropriate chemical resistant gloves.
<b>Hand protection</b>	Use of an impervious apron is recommended. No special protective equipment required.
<b>Other</b>	
<b>Respiratory protection</b>	If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge. If ventilation is insufficient when curing use chemical respirator with organic vapor cartridge.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

#### 9. Physical and chemical properties

<b>Appearance</b>	
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.94 g/cm3
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
<b>Other information</b>	
Density	0.94 g/cm3 at 25 °C
Heat of combustion (NFPA 30B)	0 kJ/g
Kinematic viscosity	1000 mm2/s (77 °F (25 °C))
Molecular formula	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub> Si
Specific gravity	0.94
Surface tension	20 mN/m (77 °F (25 °C))

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**10. Stability and reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials. None known.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

**11. Toxicological information****Information on likely routes of exposure**

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Direct contact with eyes may cause temporary irritation.

**Information on toxicological effects****Acute toxicity**

Components	Species	Test Results
Decamethylcyclotetrasiloxane (CAS 541-02-6)		
<u><b>Acute</b></u>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg bw/day (comparable to OECD 402)
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg (comparable to the now deleted OECD 401)
<u><b>Chronic</b></u>		
<b>Inhalation</b>		
NOAEC	Rat	>= 160 ppm, 2 years (equivalent to OECD 453)
<u><b>Subchronic</b></u>		
<b>Oral</b>		
NOAEL	Rat	>= 1000 mg/kg bw/day, 90 days (OECD 408)

**Oclamethylcyclotetrasiloxane (CAS 556-67-2)**

<u><b>Acute</b></u>		
<b>Dermal</b>		
LD50	Rat	> 2375 mg/kg bw
<b>Inhalation</b>		
LC50	Rat	36000 mg/m3
<b>Oral</b>		
LD50	Rat	> 4800 mg/kg bw
<u><b>Chronic</b></u>		
<b>Inhalation</b>		
NOAEC	Rat	150 ppm (EPA OPPTS 870.4300)

**Skin corrosion/irritation** Not available.

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**Respiratory or skin sensitization**  
**Respiratory sensitization** Not available.  
**Skin sensitization** Not available.  
**Germ cell mutagenicity** Not available.  
**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**IARC Monographs, Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** Suspected of damaging fertility.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

**12. Ecological information**

Ecotoxicity		Ecological Information		
Product		Species		Test Results
KE-76BSR				
Aquatic				
Crustacea	EC50	Daphnia		805.5558 µg/l, 48 hr estimated
Fish	LC50	Fish		4444.4447 µg/l, 96 hr estimated
Components		Species		Test Results
Decamethylcyclotetrasiloxane (CAS 541-02-6)				
Aquatic				
Algae	EC50	Pseudokirchneriella subcapitata		> 12 µg/l, 72 hr
	NOEC	Pseudokirchneriella subcapitata		> 12 µg/l
Crustacea	EC50	Daphnia magna		> 2.9 µg/l, 48 hr
	NOEC	Daphnia magna		>= 15 µg/l, 21 day study : reproduction and growth
Fish	LC50	Oncorhynchus mykiss		> 16 µg/l, 96 hr
	NOEC	Oncorhynchus mykiss		>= 14.4 µg/l, 90 day study: fish early life-stages
Octamethylcyclotetrasiloxane (CAS 556-67-2)				
Aquatic				
Acute				
Algae	ErC10	Pseudokirchneriella subcapitata		>= 22 µg/l, 96 h
	ErC50	Pseudokirchneriella subcapitata		> 22 µg/l, 96 h
Crustacea	EC50	Daphnia magna		> 15 µg/l, 48 h
Fish	LC50	Oncorhynchus mykiss		> 22 µg/l, 96 h
Chronic				
Crustacea	NOEC	Daphnia magna		>= 15 µg/l, 21 days
Fish	NOEC	Oncorhynchus mykiss		>= 4.4 µg/l, 93 days

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<b>Persistence and degradability</b>	No data available.
<b>Photolysis</b>	
Half-life (Photolysis-atmospheric)	
Decamethylcyclotetrasiloxane	10.4 days, indirect photolysis
<b>Hydrolysis</b>	
Half-life (Hydrolysis)	
Decamethylcyclotetrasiloxane	73.4 days ( pH 7 and 25 °C )
Octamethylcyclotetrasiloxane	0.9 - 1 h (pH9; 25°C)
	1.8 h (pH4; 25°C)
	69.3 - 144 h (pH7; 25°C)
<b>Biodegradability</b>	
Percent degradation (Aerobic biodegradation-ready)	
Decamethylcyclotetrasiloxane	OECD 301, Not readily biodegradable.
Percent degradation (Aerobic biodegradation-soil)	
Decamethylcyclotetrasiloxane	0.08 days Half-life in soil, at 22°C in tropical Wahiawa soil in closed system
<b>Bioaccumulative potential</b>	No data available.
Partition coefficient n-octanol / water (log Kow)	
Decamethylcyclotetrasiloxane	8.02 ( 25.3 °C )
Octamethylcyclotetrasiloxane	6.49 ( 25.1 °C )
Bioconcentration factor (BCF)	
Decamethylcyclotetrasiloxane	16200 lipid-normalized, kinetic
	Species: Pimephales promelas
Octamethylcyclotetrasiloxane	12400 (Fathead minnows)
<b>Mobility in soil</b>	
<b>Adsorption</b>	
Soil/sediment sorption - log Kd	
Decamethylcyclotetrasiloxane	5.34, average
Soil/sediment sorption - log Koc	
Decamethylcyclotetrasiloxane	5.17, average
<b>Mobility in general</b>	
<b>Volatility</b>	
Henry's law	
Decamethylcyclotetrasiloxane	3.13, indicating high potential of volatilization from water.
<b>Other adverse effects</b>	Not available.

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**13. Disposal considerations**

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**Disposal instructions** Follow applicable Federal, State and Local regulations.

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**14. Transport information**

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**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This product is not intended to be transported in bulk.

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**15. Regulatory information**

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**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

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**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

SARA 313 (TRI reporting)

**US state regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**Decamethylcyclotetrasiloxane (CAS 541-02-6)  
Octamethylcyclotetrasiloxane (CAS 556-67-2)**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).**16. Other information, including date of preparation or last revision**

Issue date	04-22-2015
Revision date	06-22-2020
Version #	02
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
NFPA ratings	

**Disclaimer**

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

**Revision information**

This document has undergone significant changes and should be reviewed in its entirety.

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