# SAFETY DATA SHEET 10-9581



1. Identification		
Product identifier	100% Silicone Sealant - Clear	
Recommended use	adhesives/sealant	
<b>Recommended restrictions</b>	None Known	
Responsible Party:		
Name Address	MULE HIDE PRODUCTD CO. INC. 1195 PRINCE HALL DRIVE, BELOIT, WI, §	53511. USA
Telephone Number	800-786-1492	
Emergency Phone Number	Chemtrec: +1-800-424-9300 (Within US) Chemtrec: +1-703-527-3887 (Outside US)	
	2. Hazard(s) identifica	tion
Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, repeated exposure	Category 2 (Cardiovascular / Hematological: hematopoiesis)
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement		n allergic skin reaction. Suspected of damaging fertility. Ilar / Hematological: hematopoiesis) through prolonged
Precautionary statement		
Prevention	and understood. Wear protective gloves/pro	not handle until all safety precautions have been read tective clothing/eye protection/face protection. Do not Vash thoroughly after handling. Contaminated work wrkplace.
Response	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell. 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 advice/attention. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance	e with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Methyloximesilane*		Proprietary*	1 - < 3
Vinyloximesilane*		Proprietary*	< 1
Alkoxysilane*		Proprietary*	< 1
Methylethylketoxime(Impurity)		96-29-7	< 1
Octamethylcyclotetrasiloxane (Impurity)		556-67-2	< 1

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

4. First-aid measures		
Inhalation	Move to fresh air. Call a physician if symptoms develop orpersist.	
Skin contact	Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.	
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention immediately.	
Most important symptoms/effects, acute and delayed	Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects.	
Indication of immediate medical attention and special treatment needed	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. Wash contaminated clothing before reuse.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	om By heating and fire, harmful vapors/gases may be formed. Nitrogen oxides. (corrosive)	
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.	
General fire hazards	No unusual fire or explosion hazards noted.	
	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. Do not touch or walk through spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment.	

Methods and materials for	Eliminate sources of ignition.		
containment and cleaning up	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.		
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.		
	Never return spills in original containers for re-use.		
Environmental precautions	Prevent further leakage or spillage if safe to do so.		
	7. Handling and storage		
	7. Handling and storage		
Precautions for safe handling	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes. Avoid contact with skin.		
Precautions for safe handling Conditions for safe storage, including any incompatibilities	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read		
Conditions for safe storage,	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes. Avoid contact with skin. Store locked up. Keep container tightly closed. Keep out of the reach of children. Store in a cool,		
Conditions for safe storage,	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes. Avoid contact with skin. Store locked up. Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight. Keep in original container.		

Components	Туре	Value
Methylethylketoxime(Impurit y) (CAS 96-29-7)	TWA	36 mg/m3
		10 ppm
Vendor guide		
Components	Туре	Value
Methylethylketoxime(Impurit y) (CAS 96-29-7)	STEL	10 ppm
	TWA	3 ppm
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Provide eyewash station. Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.	
Individual protection measures,	such as personal protective equipment	
Eye/face protection	Tightly sealed safety glasses according to EN166.	
Skin protection		
Hand protection	Wear protective gloves.	
Other	Wear suitable protective clothing.	
Respiratory protection	If airborne concentrations are above respiratory protection.	the applicable exposure limits, use NIOSH approved
Thermal hazards	Wear appropriate thermal protective clothing, whennecessary.	
General hygiene considerations	away from food and drink. Wash ha	act with skin. When using, do not eat, drink or smoke. Keep nds before breaks and immediately after handling the product. not be allowed out of the workplace. Handle in accordance ety practice.

# 9. Physical and chemical properties

Appearance	
Form	Paste.
Color	Translucent
Odor	Oxime odor
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable

Flash point	204.8 °F (96 °C) Closed Cup	
Evaporation rate	< 1 (Butyl Acetate=1)	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp		
Flammability limit - lower (%)	No data	
Flammability limit - upper (%)	No data	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Negligible(25 °C)	
Vapor density	> 1 (air=1)	
Relative density	1.03(25 °C)	
Solubility(ies)		
Solubility (water)	Not soluble	
Partition coefficient (n-octanol/water)	Not applicable	
Auto-ignition temperature	No data	
Decomposition temperature	Not available.	
Viscosity	Not applicable	
Other information		
Molecular weight	Not applicable	
	10. Stability and	
Reactivity	No hazardous reaction known unde	er normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.	
Possibility of hazardous reactions	Hazardous polymerization does not	toccur.
Conditions to avoid	None known.	
Incompatible materials	Strong oxidizing agents. Water, mo	
Hazardous decomposition products	This product reacts with water, moisture or humid air to evolve following compounds: Methylethylketoxime. Refer to section 8 : exposure controls/personal protection and section 11 : toxicological information. Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decompositionproduct: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde.	
	11. Toxicological	information
Information on likely routes of e	•	
Ingestion	No significant effects are expected.	
Inhalation	No significant effects are expected.	
Skin contact	May cause an allergic skin reaction.	
Eye contact	Causes serious eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.	
Information on toxicological effe	ects	
Acute toxicity		
Components	Species	Test Results
Alkoxysilane (CAS Proprietary)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg

Components Species Test Results		Test Results	
		16 ml/kg	
Inhalation			
LC50	Rat 1.49 - 2.44 mg/l/4h		
Oral			
LD50	Rat	2995 mg/kg	
		2400 mg/kg	
Methylethylketoxime(Impurity) (CA	AS 96-29-7)		
Acute			
Dermal			
LD50	Rabbit	200 µl/kg	
Oral			
LD50	Rat 930 mg/kg		
Skin corrosion/irritation	SKIN-RABBIT : Moderately irritating [Alkoxysilane] SKIN-RABBIT : 500mg/24hr MILD [Octamethylcyc	lotetrasiloxane]	
Serious eye damage/eye irritation	Causes serious eye damage. [Vinyloximesilane] [Methylethylketoxime] EYE-RABBIT : 15mg SEVERE [Alkoxysilane ] Causes serious eye irritation. [Methyloximesilane] EYE-RABBIT : MILD [Octamethylcyclotetrasiloxane]		
Respiratory or skin sensitization	1		
<b>Respiratory sensitization</b>	Not available.		
Skin sensitization	May cause an allergic skin reaction. [Methyloximes [Methylethylketoxime] Positive (Guinea pig) [Alkoxysilane] No evidence of sensitization [Octamethylcyclotetra		
Germ cell mutagenicity		Negative(Ames test, Chromosome analysis, Micronucleus test) [Alkoxysilane] Negative(Bacteria) [Octamethylcyclotetrasiloxane]	
Carcinogenicity	Suspected of causing cancer. [Methylethylketoxime]		
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1050)		
Not listed.			
Reproductive toxicity	<ul> <li>Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries ofoffspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size. The significance of these findings to humans is not known.</li> <li>[Octamethylcyclotetrasiloxane]</li> <li>Developmental toxicity: NOAEL 500mg/kg/day (Rat), Maternal toxicity: NOAEL 500mg/kg/day (Rat) [Alkoxysilane]</li> </ul>		
Specific target organ toxicity - single exposure	[Alkoxysilane] Not available.		

Aspiration hazard Not a Chronic effects Not a Further information Addit Male liver of MEK Sk Ey Acc Acc Acc Acc Acc Acc Acc Ac	crease in liver size. No gross laved. An increase in liver meta er of normal cells (hyperplasis mined to be the underlying ca- nanisms producing these effec- ins are insensitive. A two year nethylcyclotetrasiloxane. Rats s/week for up to 104weeks to ase in incidence of (uterine)er rs) were observed in female ra- that greatly exceeds typical w nercial or consumer uses of p nificant risk to humans. [Octar vailable. vailable. vailable. vailable. valable. ional Information nyl Ethyl Ketoxime (MEKO). M rodents exposed to MEKO va cancer. But relevance to huma D below in Irritation ;Causes mild in es Irritation ;Causes seven ute Oral Tox. ;LD50(rat) = s ute Dermal Tox. ;LD50(rat) = s ute Dermal Tox. ;LD50(rat) = s ute Inhalation Tox.;LC50(rat) = s ute Inhalation Tox.;LC50(rat) = s ute Inhalation Tox.;LC50(rat) = s ute Crain Tox. ;LD50(rat) = s ute Crain Tox. ;Liver carcino in Sensitization ;Causes mild in a concentration related	laterial will generate MEKO on ea por at high concentration through ins is uncertain now. Please read itation. Can be absorbed through e irritation. 900mg/kg. bit)= >1000mg/kg. > 4.83mg/l/4Hr tic action at high concentration. M ea pig) a produce transient and reversible mas were observed in a lifetime i ed. ve effects on the olfactory epithe manner in males and females of n. The significant change in hem	nical chemistry effects were ransient increase in the size (hypertrophy) were he biochemical a, while similar mechanisms in enicity assy was conducted on apor inhalation 6hrs/day, methylcyclotetrasiloxane. The terine adenomas(benign ts only occurred at 700ppm, a it is unlikely that industrial, clotetrasiloxane would result in exposure to humid air gradually. hout their lifetime developed d the detail information to in theskin. May produce blood effects e change in neurobehavioral inhalation study (ca.2 years) elium of nasal passages mice and rats at MEKO atological parameters were
Chronic effects Not a Further information Addit Male liver of MEK Sk Ey Ac Ac Ac Ac Ac Ac Ac Ac Ac Ac	vailable. ional Information hyl Ethyl Ketoxime (MEKO). M rodents exposed to MEKO va cancer. But relevance to huma D below in Irritation ;Causes mild in es Irritation ;Causes seven ute Oral Tox. ;LD50(rat) = > ute Dermal Tox. ;LD50(rat) = alation Tox. ;LD50(rat) = alation Tox. ;Shows narco in Sensitization ;Positive(guine urotoxicity ;High dose car on. rcinogenicity ;Liver carcino ich mice and rats were expose the Chronic Study ;Degenerat ed in a concentration related entration of 15, 75 and 375ppr ved at 404ppm concentration prkplace Environmental Expose WEEL ; 10ppm(TWA)	por at high concentration through ins is uncertain now. Please read itation. Can be absorbed through irritation. 900mg/kg. bit)= >1000mg/kg. > 4.83mg/l/4Hr tic action at high concentration. Me a pig) produce transient and reversible mas were observed in a lifetime it ad. ve effects on the olfactory epithe manner in males and females of n. The significant change in hem	hout their lifetime developed d the detail information to n theskin. May produce blood effects e change in neurobehavioral inhalation study (ca.2 years) elium of nasal passages mice and rats at MEKO atological parameters were
Further information       Addit         Met       Male         liver       MEK         Sk       Ey         Ac       Ac         Ac       Ac         Ac       Ac         Ac       Ac         Inf       Sk         Net       functi         Components       May         Alkoxysilane (CAS Proprietary)       Toxic	ional Information hyl Ethyl Ketoxime (MEKO). M rodents exposed to MEKO va cancer. But relevance to huma D below in Irritation ;Causes mild in es Irritation ;Causes mild in es Irritation ;Causes sever ute Oral Tox. ;LD50(rat) =	por at high concentration through ins is uncertain now. Please read itation. Can be absorbed through irritation. 900mg/kg. bit)= >1000mg/kg. > 4.83mg/l/4Hr tic action at high concentration. Me a pig) produce transient and reversible mas were observed in a lifetime it ad. ve effects on the olfactory epithe manner in males and females of n. The significant change in hem	hout their lifetime developed d the detail information to n theskin. May produce blood effects e change in neurobehavioral inhalation study (ca.2 years) elium of nasal passages mice and rats at MEKO atological parameters were
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May Components Alkoxysilane (CAS Proprietary)	12. Ecological ir		
May Components Alkoxysilane (CAS Proprietary)		formation	
May Components Alkoxysilane (CAS Proprietary)		c life with long lasting effects. [All	koxysilane]
Components Alkoxysilane (CAS Proprietary)			
Alkoxysilane (CAS Proprietary)	Species	ects to aquatic life. [Octamethylcy Test Resu	
	Opecies		
Algae EbC50	Green algae (Seler capricornutum)	astrum 5.5 mg/l, 7	72 hr
ErC50	Green algae (Seler capricornutum)	astrum 8.8 mg/l, 7	72 hr
Crustacea EC50	Water flea (Daphnia	a magna) 90 mg/l, 4	-8 hr
Fish LC50	Bluegill (Lepomis m	acrochirus) > 100 mg/	/l, 96 hr
	Fathead minnow (P	imephales promelas) > 100 mg/	/l, 96 hr
	Rainbow Trout	> 100 mg/	/l, 96 hr
Methylethylketoxime(Impurity) (CAS Aquatic	96-29-7)		
Fish LC50	Fathead minnow (P	imephales promelas) 777 - 914 r	mg/l, 96 hours
	LC50 Fathead minnow (Pimephales promelas) 777 - 914 mg/l, 96 hours Causes easily hydrolysis in water or atmosphere. [Alkoxysilane]		

Follow applicable Federal, State and Local regulations.

# 13. Disposal considerations

**Disposal instructions** 

14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

## Transport in bulk according to This product is not intended to be transported in bulk.

# Annex II of MARPOL 73/78 and

#### the IBC Code

15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

SARA 313 (TRI reporting)

#### US state regulations

**US. Massachusetts RTK - Substance List** 

Not regulated.

- US. New Jersey Worker and Community Right-to-Know Act Not listed.
- US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

Not regulated.

#### **US. California Proposition 65**

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

#### **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

## Country(s) or region

#### Inventory name

#### Toxic Substances Control Act (TSCA) Inventory

Yes

United States & Puerto Rico \*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 thegoverning country(s).

16. C	Other information, including date of preparation or last revision
Issue date	03-13-2015
Version #	01
NFPA ratings	Health: 2 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 theyare 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	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Transport Information: Material Transportation Information Regulatory Information: United States GHS: Classification