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### ASI 335 Aluminum

#### **Section 1: Product and Company Identification**

American Sealants, Inc. 9190 Yeager Ln Fort Wayne, Indiana 46809 Phone: 260-489-0728 Fax: 260-489-0519

**Emergency Phone Number** Infotrac: +1-800-535-5053 (Within US) Infotrac: +1-352-323-3500 (Outside US)

Product Identifier: Recommended Use: Restrictions on Use:

ASI 335 Aluminum Sealants (Glass joint sealant, silicone sealant for construction) Industrial use only.

#### Section 2: Hazard(s) Identification

Classification in accordance with 29 CFR 1910.1200.

Serious eye damage/eye irritation, Category 2A Sensitization, skin, Category 1 Reproductive toxicity (fertility), Category 2 Specific target organ toxicity, repeated exposure, Category 2

Acute and Delayed Effects:

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, If Needed:

**GHS Label Elements** Symbol(s):

Signal Word: Hazard Statement(s): Warning Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s) Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray.



Treat symptomatically and supportively.



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	Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
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. Take off contaminated clothing and wash it before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3: Composition/Information on Ingredients

CAS	Component	Percent
Proprietary	Methyloximesilane	1 - < 3
Proprietary	Vinyloximesilane	< 1
Proprietary	Alkoxysilane	< 1
96-29-7	Methylethylketoxime (Impurity)	< 1
556-67-2	Octamethylcyclotetrasiloxane (Impurity)	< 1

Section 4: First-	Section 4: First-Aid Measures	
Inhalation:	IF INHALED: Remove to fresh air. Get medical attention if symptoms occur.	
Skin Contact:	IF ON SKIN: Wash off with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. Get medical advice/attention if symptoms occur. Take off contaminated clothing and wash before use.	
Eye Contact:	IF IN EYES: Flush eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation develops and persists: Get medical advice/attention.	
Ingestion:	Rinse mouth thoroughly with water. Get immediate medical attention if symptoms occur.	

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Use carbon dioxide, regular dry chemical powder, alcohol-resistant foam, or water fog.



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Unsuitable Extinguishing Media: Specific Hazards Arising from the Chem	None known. iical
Hazardous Decomposition Products:	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.
Specific extinguishing methods:	Move containers from fire area if you can do so without risk.

SAFTEY DATA SHEET

Section 6: Accidental Release Measures		
Personal Precautions, Protective		
Equipment and Emergency Procedures:	Keep unnecessary personnel away.	
	Do not touch or walk through spilled material.	
	Ensure adequate ventilation.	
	Wear appropriate personal protective equipment.	
Environment Precautions:	Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.	
Methods and Materials for Containment		
and Cleaning Up:	Eliminate sources of ignition.	
	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.	

Precautions for Safe Handling	
Protective Measures:	Provide adequate ventilation. Use care in handling/storage. Obtain special instructions before use. 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.
Advice on General Occupational Hygiene:	Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Wash contaminate clothing before reuse.



Conditions for Safe Storage, including any Incompatibilities:	Store locked up. Keep in original container and tightly closed. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight.
Incompatibilities:	Strong oxidizing agents, water, moisture

### Section 8: Exposure Controls/Personal Protection

### Component Exposure Limits

CAS	Component	Exposure Limits		
96-29-7	Methylethylketoxime		WEEL: 36 mg/m3 TWA 10 ppm	
	(Impurity)		Vendor: 10 ppm STEL; 3 ppm TWA	
Appropriate Engine	ering Controls:	Provide eyev Pay attention	quate general and local exhaust ventilation. vash station. n to ventilation such as local exhaust, mechanical and/or or at least 24 hours after application.	
Individual Protecti Eye/Face Protectio		Provide an e	sealed safety glasses according to EN 166. mergency eye wash fountain and quick drench shower in te work area.	
Skin Protection: Skin should		Skin should b	be washed after contact.	
Hand Protection: Wear prote workday.			ctive gloves. Wash hands before breaks and at the end of	
Respiratory Protect	tion:		oncentrations are above the applicable exposure limits, pproved respiratory protection.	

ection 9: Physical and Ch	nemical Properties		
Physical State:	Liquid	Appearance:	Paste
Color:	Aluminum color	Physical Form: :	Paste
Odor:	Oxime odor	Odor Threshold:	Not available
pH:	Not applicable	Melting Point:	Not applicable
Boiling Point:	Not applicable	Decomposition:	Not available
Flash Point:	204.8 °F (96 °C)	<b>Evaporation Rate:</b>	< 1 (Butyl Acetate=1)
	Closed cup		
<b>OSHA Flammability Class:</b>	Not classified as a	Vapor Pressure:	Negligible (25 °C)
	flammability hazard		
Vapor Density (air = 1):	> 1 (air=1)	Density:	1.03 (25 °C)
specific Gravity (water = 1):	Not available	Water Solubility:	Not soluble
Log KOW:	Not available	Coeff. Water/Oil Dist:	Not available
KOC:	Not available	Auto Ignition:	Not available
Viscosity:	Not applicable	VOC:	1-3%



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Volatility: Not ava	ilable Molecular Formula: Not applicable
Section 10: Stability and Reactivit	у
Reactivity:	Not classified as a reactivity hazard.
Chemical Stability:	Stable at normal temperatures and pressure.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	None known.
Incompatible Materials:	Strong oxidizing materials, water, moisture
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 decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde.

CAS	Component	Result	Species	Dose	Exposure
		LD50 Oral	Rat	2995 mg/kg 2400 mg/kg	N/A
Proprietary	Alkoxysilane	LC50 Inhalation	Rat	1.49-2.44 mg/L	4 hr
		LD50 Dermal	Rabbit	>2000 mg/kg 16 ml/kg	N/A
96-797	Methylethylketoxime	LD50 Oral	Rat	930 mg/kg	N/A
	(Impurity)	LD50 Dermal	Rabbit	200 µl/kg	N/A
Information o Inhalation: Ingestion: Skin Contact:	No si	gnificant effects are exp gnificant effects are exp cause an allergic skip re	pected.		
Skin Contact.	iviay	cause an allergic skin re	eaction.		



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Immediate and Delayed Effects:	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.
Medical Conditions Aggravated by Exposure:	No information is available.
Irritation/Corrosivity Data:	SKIN-RABBIT : Moderately irritating [Alkoxysilane] SKIN-RABBIT : 500mg/24 r MILD [Octamethylcyclotetrasiloxane]
	Causes serious eye damage. [Vinyloximesilane] [Methylethylketoxime] EYE-RABBIT : 15mg SEVERE [Alkoxysilane] Causes serious eye irritation. [Methyloximesilane] EYE-RABBIT : MILD [Octamethylcyclotetrasiloxane]
Respiratory Sensitization:	Not available.
Dermal Sensitization:	May cause an allergic skin reaction. [Methyloximesilane] [Vinyloximesilane] [Methylethylketoxime] Positive (Guinea pig) [Alkoxysilane] No evidence of sensitization [Octamethylcyclotetrasiloxane]
Germ Cell Mutagenicity:	Negative(Ames test, Chromosome analysis, Micronucleus test) [Alkoxysilane] Negative(Bacteria) [Octamethylcyclotetrasiloxane]
Carcinogenicity:	Suspected of causing cancer. [Methylethylketoxime]
Component Carcinogenicity OSHA Specifically Regulated Substan	ices (29 CFR 1910.1001-1050): Not listed.
Reproductive Toxicity:	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 of offspring 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. [Octamethylcyclotetrasiloxane] Developmental toxicity: NOAEL 500mg/kg/day (Rat), Maternal toxicity: NOAEL 500mg/kg/day (Rat) [Alkoxysilane]
Specific Target Organ Toxicity – Single Exposure:	Not available.
Specific Target Organ Toxicity – Repeated Exposure:	May cause damage to the following organs through prolonged or repeated exposure:



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	Cardiovascular / Hematological: hematopoiesis. [Vinyloximesilane] Cardiovascular / Hematological: hematopoiesis. [Methyloximesilane]			
	Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane produced an increase in liver size. No gro histopathological or significant clinical chemistry effects were observed An increase in liver metabolizing enzymes, as well as a transient increas in the number of normal cells (hyperplasia) followed by an increase in size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effect are highly sensitive in rodents, while similar mechanisms in humans are insensitive. A two year combined chronic and carcinogenicity assay wa conducted on octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6hrs/day, 5days/week for up to 104week 0, 10, 30, 150 or 700ppm of octamethylcyclotetrasiloxane. The increase incidence of (uterine) endometrial cell hyperplasia and uterine adenom (benign tumors) were observed in female rats at 700ppm. Since these effects only occurred at 700ppm, a level that greatly exceeds typical workplace or consumer exposure, it is unlikely that industrial, commer or consumer uses of products containing octamethylcyclotetrasiloxane would result in a significant risk to humans. [Octamethylcyclotetrasiloxane]			
Aspiration Hazard:	Not classified based on ava	ilable information.		
Further Information:	Methyl Ethyl Ketoxime (MEKO). Material will generate MEKO o to humid air gradually. Male rodents exposed to MEKO vapor a concentration throughout their lifetime developed liver cancer relevance to humans is uncertain now. Please read the detail ir to MEKO below:			
	Skin Irritation:	Causes mild irritation. Can be absorbed through the skin.		
	Eyes Irritation:	Causes severe irritation.		
	Acute Oral Toxicity:	LD50(rat)= >900mg/kg		
	Acute Dermal Toxicity:	LD50(rabbit)= >1000mg/kg		
	Acute Inhalation Toxicity:	LC50(rat) > 4.83mg/l/4Hr		
	Inhalation Toxicity:	Shows narcotic action at high concentration. May produce blood effects		
	Skin Sensitization:	Positive(guinea pig)		
	Neurotoxicity:	High dose can produce transient and reversible change in neurobehavioral function.		



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Carcinogenicity:	Liver carcinomas were observed in a lifetime inhalation study (ca.2 years) in which mice and rats were exposed.
Other Chronic Study:	Degenerative effects on the olfactory epithelium of nasal passages occurred in a concentration related manner in males and females of mice and rats at MEKO concentration of 15, 75 and 375ppm. The significant change in hematological parameters were observed at 404ppm concentration.
Workplace Environmental Exposu Level:	Vendor guide: 3ppm(TWA), 10ppm(STEL) ure AIHA WEEL: 10ppm(TWA)

### Section 12: Ecological Information

#### Ecotoxicity

Toxic to aquatic life. Toxic to aquatic life with long lasting effects. [Alkoxysilane] May cause long lasting harmful effects to aquatic life. [Octamethylcyclotetrasiloxane]

CAS	Component	Aquatic	Result	Species	Dose	Exposure
		Fish	LC50	Bluegill ( <i>Lepomis</i> macrochirus)	>100 mg/L	96 hr
	LC50		Fathead minnow (Pimephales promelas)	>100 mg/L	96 hr	
Proprietary	Alkoxysilane		LC50	Rainbow trout (Oncorhynchus mykiss)	>100 mg/L	96 hr
	Invertebrates	EC50	Water flea ( <i>Daphnia magna</i> )	90 mg/L	48 hr	
		EbC50	Green algae (Selenastrum capricornutum)	5.5 mg/L	72 hr	
		Algae	ErC50	Green algae (Selenastrum capricornutum)	8.8 mg/L	72 hr
96-29-7	Methylethylketoxime (Impurity)	Fish	LC50	Fathead minnow (Pimephales promelas)	777-914 mg/L	96 hr

### **Component Analysis – Aquatic Toxicity**



Persistence and Degradability:	Causes easily hydrolysis in water or atmosphere. [Alkoxysilane]
Bioaccumulative Potential:	Bio concentration Factor(BCF) / (Fathead minnows) : 12400 [Octamethylcyclotetrasiloxane]
Biodegration:	No information available for the product.
Section 13: Disposal Consideration	15
Disposal Methods:	Dispose in accordance with all applicable federal, state/regional and local laws and regulations.
Disposal of Contaminated Packaging:	Dispose of unused product properly. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Component Waste Numbers:	The U.S. EPA has not published waste numbers for this product's components.

Section 14: Transport Information	
International Regulation	
IATA:	Not regulated as a dangerous good.
IMDG:	Not regulated as a dangerous good.
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.
Domestic Regulation	
DOT:	Not regulated as a dangerous good.

### **Section 15: Regulatory Information**

#### **US Federal Regulations**

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

SARA 302 Extremely Hazardous		
Substances:	None contained in product.	
SARA 304:	Not applicable.	
SARA 311/312:	None known.	
SARA 313:	None known.	
TSCA:	All components of this product are listed	d on TSCA Inventory.
US State Regulations		
Massachusetts Right-to-Know -	Substance List: Not regulate	ed



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New Jersey Worker and Community Right-to-Know Act:	Not listed
Pennsylvania Worker and Community Right-to-Know Law:	Not listed
Rhode Island Right-to-Know:	Not regulated

California Proposition 65:

This product does not contain any chemicals known by the State of California to cause cancer or reproductive harm.

#### **Component Analysis – International Inventories**

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Methylethylketoxime (Impurity)	96-29-7	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes
Octamethylcyclotetrasiloxane (Impurity)	556-67-2	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes

Section 16: Other Information	
	C /24/45
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NFPA Ratings:	±
Health:	2
Fire:	
Reactivity:	0
Hazard Scale: 0 =	Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS III:	
0 = Not Significant, 3	PHYSICAL HAZARD01 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic
(Korea); NZIOC (New Zealand); P Threshold Limit Values (TLV); NI OSHA – TABLE Z-1 Limits for Air Limits (OSHA) – Table Z-1 Limits (OSHA) – Table Z-3 Mineral Dust Time-weighted average concent REL / ST – STEL – 15-minute TW	ECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI ICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH OSH REL – USA. NIOSH Recommended Exposure Limits; OSHA PO – USA. Contaminants – 1910.1000; OSHA Z-1 – USA. Occupational Exposure for Air Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits ts; ACGIH / TWA – 8-hour, time-weighted average; NIOSH REL / TWA – cration for up to a 10-hour workday during a 40-hour workweek; NIOSH A exposure that should not be exceeded at any time during a workday; veighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; weighted average

Disclaimer:



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The information contained herein is based on data considered accurate which has been obtained from other companies and organizations.

**End of Document**