



chemical-concepts.com 800.220.1966 410 Pike Road • Huntingdon Valley, PA 19006 SAFETY DATA SHEET

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ASI 335 White

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 White RTV rubbers (for electrical, electronic and general industry (gluing and sealing)) Industrial use only.

Section 2: Hazard(s) Identification

Classification in accordance with 29 CFR 1910.1200. 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)

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:

Treat symptomatically and supportively.

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 (Cardiovascular/Hematological: hematopoiesis) 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.

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	Do not breathe dust/fume/gas/mist/vapors/spray. 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. 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 with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients			
CAS	<u>Component</u>	Percent	
Proprietary	Methyloximesilane	1 - < 3	
Proprietary	Vinyloximesilane	< 1	
13463-67-7	Titanium oxide	< 1	
Proprietary	Alkoxysilane	< 1	
96-29-7	Methylethylketoxime (Impurity)	< 1	
556-67-2	Octamethylcyclotetrasiloxane (Impurity)	< 1	

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.	

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Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Use carbon dioxide, regular dry chemical powder, alcohol-resistant
Unsuitable Extinguishing Media:	foam, or water fog. None known.
Specific Hazards Arising from the Chem	ical
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.

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.	
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Section 7: Handling and Storage	
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.

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	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

Component Expo					
CAS	Component		Exposure Limits		
13463-67-7 Titanium oxide			OSHA Z-1: 15 mg/m3 PEL (Total dust) ACGIH: 10 mg/m3 TWA		
			WEEL: 36 mg/m3 TWA		
96-29-7	Methylethylket	oxime	10 ppm		
	(Impurity)		Vendor: 10 ppm STEL; 3 ppm TWA		
Appropriate Engineering Controls:		Provide ey Pay attent	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 Eye/Face Protection:		Provide an	Wear tightly sealed safety glasses according to EN 166. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.		
Skin Protection:		Skin should be washed after contact.			
Hand Protection:		Wear prot workday.	Wear protective gloves. Wash hands before breaks and at the end of workday.		
Respiratory Protection:			e concentrations are above the applicable exposure limits, l approved respiratory protection.		

ction 9: Physical and Ch	nemical Properties		
Physical State:	Liquid	Appearance:	Paste
Color:	White	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) Closed cup	Evaporation Rate:	< 1 (Butyl Acetate=1)
OSHA Flammability Class:	Not classified as a flammability hazard	Vapor Pressure:	Negligible (25 °C)
Vapor Density (air = 1):	1	Density:	1.03 (25 °C)

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Specific Gravity (water = 1):	Not available
Log KOW:	Not available
KOC:	Not available
Viscosity:	Not applicable
Volatility:	Not available

Water Solubility:Not solubleCoeff. Water/Oil Dist:Not availableAuto Ignition:Not availableVOC:1 – 3%Molecular Formula:Not applicable

Section 10: Stability and Reactivity		
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, and Formaldehyde.	

Acute Toxicity Component A	nalysis – LD50/LC50				
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
06 207	Methylethylketoxime	LD50 Oral	Rat	930 mg/kg	N/A
96-297	(Impurity)	LD50 Dermal	Rabbit	200 µl/kg	N/A
Information o Inhalation:	n Likely Routes of Exposure No sig	nificant effects are ex	pected.		

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Skin Contact:		May cause an allergic skin reaction.				
Eye Contact:		Causes serious eye irritation.				
Immediate an	nd 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 Condi Exposure:	itions Aggravated by	No information is available.				
Irritation/Corr	osivity 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]						
Carcinogenicit	Suspected of causing cancer. [Methylethylketoxime] The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards: Titanium oxide					
Component C	arcinogenicity					
CAS	Component	Result				
13463-67-7	Titanium oxide	IARC: Group 2B (possibly carcinogenic to humans)				
		nces (29 CFR 1910.1001-1050): Not listed.				
Reproductive	Reproductive Toxicity: Octamethylcyclotetrasiloxane administered to rats by whole body					

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

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	findings to humans is not k	es and live litter size. The significance of these nown. [Octamethylcyclotetrasiloxane] DAEL 500mg/kg/day (Rat), Maternal toxicity:) [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: 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 gra 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 ar 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 adenor (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 on exposure to humid air gradually. Male rodents exposed to MEKO vapor at high concentration throughout their lifetime developed liver cancer. But relevance to humans is uncertain now. Please read the detail information 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			

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	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.
	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 Exposure Level:	Vendor guide: 3ppm(TWA), 10ppm(STEL) AIHA WEEL: 10ppm(TWA)

Section 12:	Ecological Informati	on				
	aquatic life. Toxic to aq se long lasting harmful					
Component / CAS	Analysis – Aquatic Tox Component	icity Aquatic	Result	Species	Dose	Exposure
Proprietary	Alkoxysilane		LC50	Bluegill (Lepomis macrochirus)	>100 mg/L	96 hr
		Fish	LC50	Fathead minnow (Pimephales promelas)	>100 mg/L	96 hr
			LC50	Rainbow trout (Oncorhynchus mykiss)	>100 mg/L	96 hr
		Invertebrates	EC50	Water flea (Daphnia magna)	90 mg/L	48 hr
		Algae	EbC50	Green algae (Selenastrum capricornutum)	5.5 mg/L	72 hr

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			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
		Invertebrates	EC50	Water flea (Daphnia magna)	>1000 mg/L	98 hr
13463-67-7	Titanium oxide	Fish	LC50	Mummichog (Fundulus heteroclitus)	>1000 mg/L	96 hr
Persistence a	nd Degradability:	Causes e	easily hyd	rolysis in water or atn	nosphere. [Alkoxy	vsilane]
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.

Product Identifier: ASI 335 White

Section 15: Regulatory Information										
US Federal Regulations This product is a "H 29 CFR 1910.1200.	Hazardous Che	mical"	as defin	ed by the	OSHA I	Hazard	Commı	unicatio	on Stan	dard,
OSHA Specifically Regulated Sub	stances (29 CFF	R 1910.	1001-10	050): No	ot liste	d				
SARA 302 Extremely Hazardous										
Substances:	None conta	ined in	produc	t.						
SARA 304:	Not applical	ble.	-							
SARA 311/312:	None knowi									
SARA 313:	TRI reportin	g								
TSCA:	All compone	ents of	this pro	duct are li	isted or	n TSCA	Invento	ory.		
US State Regulations Massachusetts Right-to-Know New Jersey Worker and Com Pennsylvania Worker and Con Rhode Island Right-to-Know:	nunity Right-to	-Know		Titanium Titanium Titanium Not regu	n oxide n oxide	(13463	-67-7)			
California Proposition 65: Component Analysis – Internatio	WARNING! Th cause cancer. The following respirable dus pose hazards:	materi ts. Wh Tita	al is em	bedded in as intend	the pro	oduct a	nd not	availab	le as	
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
Titanium dioxide	13463-67-7	Yes	DSL	REACH	Yes	Yes	Yes	Yes	Yes	Yes

Section 16: Other Information	
Issue Date:	06/26/2015
Revision:	1
NFPA Ratings:	
Health:	2
Fire:	1 20
Reactivity:	0
Hazard Scale	: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = Not Significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Key/Legend:

AICS (Australia); DSL (Canada); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI (Korea); NZIOC (New Zealand); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH Threshold Limit Values (TLV); NIOSH REL – USA. NIOSH Recommended Exposure Limits; OSHA PO – USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000; OSHA Z-1 – USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts; ACGIH / TWA – 8-hour, time-weighted average; NIOSH REL / TWA – Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek; NIOSH REL / ST – STEL – 15-minute TWA exposure that should not be exceeded at any time during a workday; OSHA PO / TWA - 8-hour, time-weighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; OSHA Z-3 / T

Disclaimer:

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

End of Document







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ASI 335 Grey

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 Grey 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 (Cardiovascular/Hematological: hematopoiesis)

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): Treat symptomatically and supportively.



Warning Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Cardiovascular/Hematological: hematopoiesis) 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.



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Response:	Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. 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.

ection 3: Comp	oosition/Information on Ingredients	
CAS	<u>Component</u>	Percent
Proprietary	Methyloximesilane	1 - < 3
Proprietary	Vinyloximesilane	< 1
13463-67-7	Titanium oxide	< 1
Proprietary	Alkoxysilane	< 1
1333-86-4	Carbon black	0.007199992
96-29-7	Methylethylketoxime (Impurity)	< 1
556-67-2	Octamethylcyclotetrasiloxane (Impurity)	< 1

Section 4. Inst-Alu Measures	Section	4: First-Aid	Measures
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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.



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Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Use carbon dioxide, regular dry chemical powder, alcohol-resistant foam, or water fog.
Unsuitable Extinguishing Media:	None known.
Specific Hazards Arising from the Chen	nical
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.

Section 6: Accidental Release Measur	es
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.

Section 7: Handling and Storage	
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.



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	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: Expos	ure Controls/Pers	onal Protect	ion		
Component Expos	ure Limits				
CAS	Component		Exposure Limits		
			ACGIH: 3 mg/m3 TWA (Inhalable fraction)		
1333-86-4	Carbon black		OSHA Z-1: 3.5 mg/m3 PEL		
			NIOSH REL: 0.1 mg/m3 TWA		
13463-67-7	Titanium oxide		ACGIH: 10 mg/m3 TWA		
13403-07-7	Intalliulli Oxide		OSHA Z-1: 15 mg/m3 PEL (total dust)		
			WEEL: 36 mg/m3 TWA		
96-29-7	Methylethylketoxime (Impurity)		10 ppm		
			Vendor: 10 ppm STEL; 3 ppm TWA		
		door open	for at least 24 hours after application.		
Individual Protect	ion Moasuros				
Individual Protection Measures Eye/Face Protection:		Wear tightl	Wear tightly sealed safety glasses according to EN 166.		
		Provide an emergency eye wash fountain and quick drench shower in the immediate work area.			
Skin Protection: Skin should		Skin should	be washed after contact.		
		Wear prote workday.	/ear protective gloves. Wash hands before breaks and at the end of orkday.		
Respiratory Protection:		If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.			

Section 9: Physical and Chemical Properties



Product Identifier: ASI 335 Grey

Physical State:	Liquid	Appearance:	Paste
Color:	Grey	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)	Evaporation Rate:	< 1 (Butyl Acetate=1)
	Closed cup		
OSHA Flammability Class:	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%
Volatility:	Not available	Molecular Formula:	Not applicable

Section 10: Stability and Reactivity

Reactivity: Chemical Stability: Possibility of Hazardous Reactions:	Not classified as a reactivity hazard. Stable at normal temperatures and pressure. Hazardous polymerization does not occur.
Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products:	None known. Strong oxidizing materials, water, moisture 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.

Section 11: T	oxicological Informatio	on			
<u>Acute Toxicity</u> Component A	<u>/</u> nalysis – LD50/LC50				
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



1333-86-4	Carbon Black		LD50 Oral	Rat	>8000 mg/kg	N/A	
96-297	Methylethylketoxin	ne	LD50 Oral	Rat	930 mg/kg	N/A	
90-297	(Impurity)		LD50 Dermal	Rabbit	200 µl/kg	N/A	
Information on Likely Routes of Exposure Inhalation: No signi Ingestion: No signi Skin Contact: May cau Eye Contact: Causes signi Immediate and Delayed Effects: Dermati Medical Conditions Aggravated by No infor Exposure: SKIN-RA Irritation/Corrosivity Data: SKIN-RA Causes signification Causes signification			Prolonged exposur Prolonged exposur nation is available. BBIT : Moderately ir BBIT : 500mg/24 r N	pected. eaction. e irritation. S nd blurred v re may cause ritating [Alk AILD [Octam [Vinyloxime [Alkoxysiland . [Methyloxi	ymptoms may include ision. May cause an al chronic effects. ethylcyclotetrasiloxan esilane] [Methylethylko e] mesilane]	e stinging, lergic skin e]	
Respiratory S	ensitization:	Not avail		thyicycloteti	asiloxanej		
Dermal Sensi	tization:	May cause an allergic skin reaction. [Methyloximesilane] [Vinyloximesilane] [Methylethylketoxime] Positive (Guinea pig) [Alkoxysilane] No evidence of sensitization [Octamethylcyclotetrasiloxane]					
Germ Cell Mu	utagenicity:	[Alkoxysi			sis, Micronucleus test [.] asiloxane])	
Carcinogenici	ity:	The follow respirable		bedded in the as intended	nylketoxime] e product and not avail or as supplied, the pro		
Component (Carcinogenicity						
CAS	Component	Result					
1333-86-4	Carbon Black	IARC: Gro	oup 2B (possibly car	rcinogenic to	humans)		
13463-67-7	Titanium oxide		oup 2B (possibly ca	rcinogonic to	humans)		

OSHA Specifically Regulated Substances (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



	offspring extending over a observed at these concent these parameters were no evaluated (300 and 70 ppr exposed to vapor concent number of implantation si findings to humans is not h	, increases in the incidence of deliveries of n unusually long time period (dystocia) were trations. Statistically significant alterations in t observed in the lower concentrations m). In a previous range-finding study, rats rations of 700 ppm had decreases in the tes and live litter size. The significance of these known. [Octamethylcyclotetrasiloxane] OAEL 500mg/kg/day (Rat), Maternal toxicity: t) [Alkoxysilane]
Specific Target Organ Toxicity – Single Exposure:	Not available.	
Specific Target Organ Toxicity – Repeated Exposure:	repeated exposure: Cardiovascular / Hematolo	following organs through prolonged or gical: hematopoiesis. [Vinyloximesilane] gical: hematopoiesis. [Methyloximesilane]
	octamethylcyclotetrasiloxa histopathological or signifi An increase in liver metabo in the number of normal c size (hypertrophy) were de liver enlargement. The bio are highly sensitive in rode insensitive. A two year cor conducted on octamethylo whole-body vapor inhalati 0, 10, 30, 150 or 700ppm c incidence of (uterine) ende (benign tumors) were obse effects only occurred at 70 workplace or consumer ex	
Aspiration Hazard:	Not available.	
Further Information:	to humid air gradually. Ma concentration throughout	EKO). Material will generate MEKO on exposure le rodents exposed to MEKO vapor at high their lifetime developed liver cancer. But certain now. Please read the detail information
	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.
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 Exposure Level:	Vendor guide: 3ppm(TWA), 10ppm(STEL) AIHA WEEL: 10ppm(TWA)

Section 12:	Ecological Informati	ion				
	aquatic life. Toxic to ac se long lasting harmful	•	• •			
Component /	Analysis – Aquatic Tox Component	cicity Aquatic	Result	Species	Dose	Exposure
			LC50	Bluegill (Lepomis macrochirus)	>100 mg/L	96 hr
Proprietary	Alkoxysilane	Fish	LC50	Fathead minnow (Pimephales promelas)	>100 mg/L	96 hr



Product Identifier: ASI 335 Grey

			LC50	Rainbow trout (Oncorhynchus mykiss)	>100 mg/L	96 hr	
		Invertebrates	EC50	Water flea (<i>Daphnia magna</i>)	90 mg/L	48 hr	
		Algae	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	
13463-67-7	Titanium oxide	Fish	LC50	Mummichog (Fundulus heteroclitus)	>1000 mg/l	96 hr	
		Invertebrates	EC50	Water flea (Daphnia magna)	>1000 mg/l	48 hr	
Persistence a	nd Degradability:	Causes e	easily hyd	rolysis in water or atr	nosphere. [Alkoxy	silane]	
Bioaccumulative Potential:		Bio concentration Factor(BCF) / (Fathead minnows) : 12400 [Octamethylcyclotetrasiloxane]					
Mobility in Soil:		No infor	mation a	vailable for the produ	ct.		
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.				



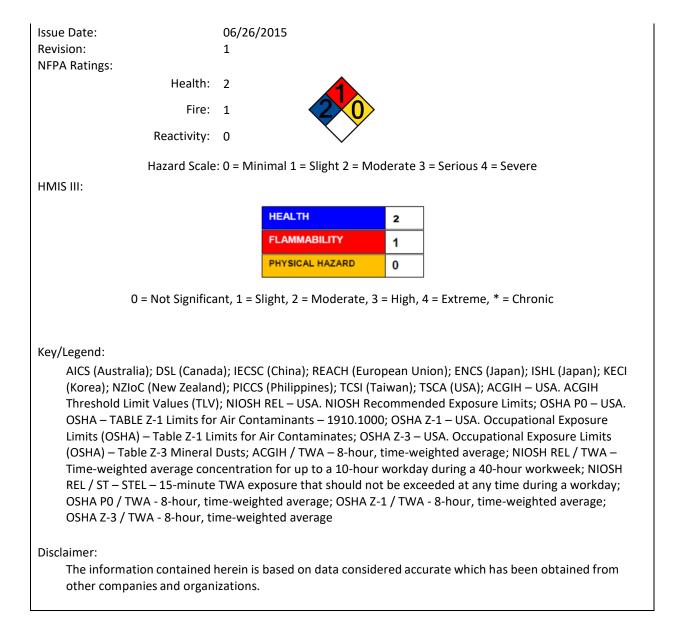
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	This product is not intended to be transported in bulk.
Domestic Regulation DOT:	Not regulated as a dangerous good.

US Fede	ral Regulat						0.000			
	-	oroduct is a R 1910.120		us Chemica	al" as defin	led by the	OSHA Haz	ard Commu	inication S	tandard,
	29 CF	N 1910.120	0.							
OSHA Sp	ecifically R	egulated Su	ubstances	(29 CFR 19	10.1001-1	050): No	ot listed			
SARA 30	2 Extremel	y Hazardou	S							
Substan	ces:		None	e contained	d in produc	t.				
SARA 30	4:		Not a	applicable.						
SARA 31	1/312:		None	e known.						
SARA 31	3:		TRI r	eporting						
TSCA:			All co	omponents	of this pro	oduct are li	sted on TS	SCA Invento	ry.	
US State	Regulatio	ns								
Massa	achusetts R	light-to-Kno	ow - Subst	ance List:		Carbon black (1333-86-4)				
						Titanium oxide (13463-67-7)				
New	ersey Wor	ker and Cor	nmunity R	ight-to-Kn	ow Act:	Carbon black (1333-86-4)				
						Titanium oxide (13463-67-7)				
Penns	sylvania Wo	orker and C	ommunity	Right-to-K	(now Law:					
						Titanium oxide (13463-67-7)				
Rhod	e Island Rig	ht-to-Know	/:			Not regu	llated			
Californi	a Propositi	on 65:	WARNI	NG! This p	roduct con	tains a che	emical kno	wn to the s	tate of Cal	ifornia t
			cause c							
				-			-	ict and not		
			-				ed or as su	ipplied, the	product w	/III not
	tad data /C	arainagania	pose ha		Carbon bla	аск	Listadu	Cohruger 21	2002	
CRT: Listed date/Carcinogenic Carbon Black (1333-86 substance Titanium oxide (13463				Listed: February 21, 2003 (-7) Listed: September 2, 2011						
CRT: LIS		Substance	e manu	III OXIGE (1	5405-07-77		LISTED.	September	2, 2011	
CRT: LIS				ontorios						
Compon		is – Interna		T	FUNC	ENICO	F C I	NI	DICCC	TOOT
	ent Analys	is – Intern a NDSL	IECSC	EINECS	ELINCS	ENCS	ECL	New Zealand	PICCS	TSCA

Section 16: Other Information



Product Identifier: ASI 335 Grey



End of Document



410 Pike Road • Huntingdon Valley, PA 19006





800.220.1966

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SAFETY DATA SHEET

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ASI 335 Colors (Antique Brown, Blue, Bone, Brown, and Green)

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 Colors (Antique Brown, Blue, Bone, Brown, and Green) RTV rubbers (for OEM, construction, and general industry (gluing and sealing)) Industrial use only.

Section 2: Hazard(s) Identification

Classification in accordance with 29 CFR 1910.1200. 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)

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): Treat symptomatically and supportively.



Warning Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Cardiovascular/Hematological: hematopoiesis) 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.



Product Identifier: ASI 335 Colors

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	Do not breathe dust/fume/gas/mist/vapors/spray. 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. 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 with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients CAS Component Percent Methyloximesilane 1 - < 3 Proprietary Vinyloximesilane Proprietary < 1 Alkoxysilane Proprietary < 1 Methylethylketoxime (Impurity) Octamethylcyclotetrasiloxane (Impurity) 96-29-7 < 1 556-67-2 < 1

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.



Product Identifier: ASI 335 Colors

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media: Unsuitable Extinguishing Media:	Use carbon dioxide, regular dry chemical powder, alcohol-resistant foam, or water fog. None known.
Specific Hazards Arising from the Chemi Hazardous Decomposition Products:	
Special Protective Equipment and	Nitrogen oxides. (corrosive) Firefighters must use standard protective equipment including flame
Precautions for Firefighters:	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.

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.			

Section 7: Handling and Storage	
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.



Product Identifier: ASI 335 Colors	Revision: 1
	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

CAS	Component		Exposure Limits		
96-29-7	Methylethylketoxime (Impurity)		WEEL: 36 mg/m3 TWA 10 ppm		
			Vendor: 10 ppm STEL; 3 ppm TWA		
P P		Provide eyev Pay attentio	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 Eye/Face Protection:		Provide an e	sealed safety glasses according to EN 166. emergency eye wash fountain and quick drench shower in ate work area.		
Skin Protection:		Skin should be washed after contact.			
		Wear proteo workday.	ctive gloves. Wash hands before breaks and at the end of		
Respiratory Protection:			If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.		

Section 9: Physical and Chemical Properties					
Physical State:	Liquid	Appearance:	Paste		
Color:	In accordance with product description	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) Closed cup	Evaporation Rate:	< 1 (Butyl Acetate=1)		
OSHA Flammability Class:	Not classified as a flammability hazard	Vapor Pressure:	Negligible (25 °C)		
Vapor Density (air = 1):	> 1 (air=1)	Density:	1.03 (25 °C)		



Specific Gravity (water = 1):	Not available
Log KOW:	Not available
KOC:	Not available
Viscosity:	Not applicable
Volatility:	Not available

Water Solubility:Not solubleCoeff. Water/Oil Dist:Not availableAuto Ignition:Not availableVOC:1 – 3%Molecular Formula:Not applicable

Section 10: Stability and Reactivity				
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, and Formaldehyde.			

Acute Toxicity Component A	nalysis – LD50/LC50				
CAS	Component	Result	Species	Dose	Exposure
	Alkoxysilane	LD50 Oral	Rat	2995 mg/kg 2400 mg/kg	N/A
Proprietary		LC50 Inhalation	Rat	1.49-2.44 mg/L	4 hr
		LD50 Dermal	Rabbit	>2000 mg/kg 16 ml/kg	N/A
06.007	Methylethylketoxime	LD50 Oral	Rat	930 mg/kg	N/A
96-297	(Impurity)	LD50 Dermal	Rabbit	200 µl/kg	N/A
Information o Inhalation:	n Likely Routes of Exposure No sig	gnificant effects are ex	pected.		
Ingestion: No significant effects are expected.					



Product Identifier: ASI 335 Colors	Document #: SDS 030 Revision: 1
Skin Contact:	May cause an allergic skin reaction.
Eye Contact:	Causes serious eye irritation.
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 Substanc	es (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]



Product Identifier: ASI 335 Colors

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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: 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 gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. A two year combined chronic and carcinogenicity assay was conducted on octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6hrs/day, 5days/week for up to 104weeks to 0, 10, 30, 150 or 700ppm of octamethylcyclotetrasiloxane. The increase in incidence of (uterine) endometrial cell hyperplasia and uterine adenomas (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, commercial 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:	to humid air gradually. Mal concentration throughout	KO). Material will generate MEKO on exposure e rodents exposed to MEKO vapor at high their lifetime developed liver cancer. But certain now. Please read the detail information			
	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: Inhalation Toxicity:	LC50(rat) > 4.83mg/l/4Hr Shows narcotic action at high concentration. May produce blood effects			
	Skin Sensitization:	Positive (guinea pig)			



Product Identifier: ASI 335 Colors

Neurotoxicity:	High dose can produce transient and reversible change in neurobehavioral function.
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 Exposure Level:	Vendor guide: 3ppm(TWA), 10ppm(STEL) 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]

Component Analysis – Aquatic Toxicity

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
Propriotory			LC50	Rainbow trout (Oncorhynchus mykiss)	>100 mg/L	96 hr
Proprietary	Alkoxysilane	Invertebrates	EC50	Water flea (Daphnia magna)	90 mg/L	48 hr
		EbC50	Green algae (Selenastrum capricornutum)	5.5 mg/L	72 hr	
	A	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



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 Considerations				
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 Regula	ted Substances (29 CFR 1910.1001-1050): Not listed		
SARA 302 Extremely Haz	ardous		
Substances:	None contained in product.		
SARA 304:	Not applicable.		
SARA 311/312:	None known.		
SARA 313:	TRI reporting		
TSCA:	All components of this product are listed on TSCA Inventory.		



Product Identifier: ASI 335 Colors

US State Regulations

Massachusetts Right-to-Know - Substance List:	Not regulated
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	
Issue Date:	06/30/2015
Revision: NFPA Ratings:	1
Health:	2
пеани.	
Fire:	
Reactivity:	0
Hazard Scal	e: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS III:	
0 = Not Signific	HEALTH 2 FLAMMABILITY 1 PHYSICAL HAZARD 0 cant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic
(Korea); NZIOC (New Zealar Threshold Limit Values (TLV OSHA – TABLE Z-1 Limits fo Limits (OSHA) – Table Z-1 L (OSHA) – Table Z-3 Minera Time-weighted average co REL / ST – STEL – 15-minut	da); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI nd); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH V); NIOSH REL – USA. NIOSH Recommended Exposure Limits; OSHA PO – USA. or Air Contaminants – 1910.1000; OSHA Z-1 – USA. Occupational Exposure imits for Air Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits I Dusts; ACGIH / TWA – 8-hour, time-weighted average; NIOSH REL / TWA – ncentration for up to a 10-hour workday during a 40-hour workweek; NIOSH e TWA exposure that should not be exceeded at any time during a workday; ime-weighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; time-weighted average



Product Identifier: ASI 335 Colors

Disclaimer:

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

End of Document



Issue Date 06/30/2015





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ASI 335 Clear

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 Clear RTV rubber for electrical, electronic and general industry (gluing and sealing) Industrial use only.

Section 2: Hazard(s) Identification

Classification in accordance with 29 CFR 1910.1200. 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)

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): Treat symptomatically and supportively.



Warning Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Cardiovascular/Hematological: hematopoiesis) 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.



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	Do not breathe dust/fume/gas/mist/vapors/spray. 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. 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 with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients		
CAS	<u>Component</u>	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-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.
Unsuitable Extinguishing Media:	None known.
Specific Hazards Arising from the Chen	nical
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.

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.
Environment Precautions:	Wear appropriate personal protective equipment. 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.

Section 7: Handling and Storage	,
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.



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Product Identifier: ASI 335 Clear

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

-	posure Limits	· · ·	
CAS	Component	Exposure Limits	
06 00 7	Methylethylketo	oxime 10 ppm	
96-29-7	(Impurity)	Vendor: 10 ppm STEL; 3 ppm TWA	
Appropriate En	gineering 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.	
	ection Measures	Wear tightly sealed safety glasses according to EN 166.	
Skin Protection: Hand Protection:		Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Skin should be washed after contact.	

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Appearance:	Paste
Color:	Translucent	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)	Evaporation Rate:	< 1 (Butyl Acetate=1
	Closed cup		



Product Identifier: ASI 335 Clear

OSHA Flammability Class:	Not classified as a flammability hazard	Vapor Pressure:	Negligible (25 °C)
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%
Volatility:	Not available	Molecular Formula:	Not applicable

Section 10: Stability and Reactivity			
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, and Formaldehyde.		

Acute Toxicity	_ nalvsis – LD50/LC50				
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	
96-297	Methylethylketoxime	LD50 Oral	Rat	930 mg/kg	N/A
96-297	(Impurity)	LD50 Dermal	Rabbit	200 μl/kg	N/A



Product Identifier: ASI 335 Clear

Information on Likely Routes of Exp Inhalation:	osure No significant effects are expected.
Ingestion:	No significant effects are expected.
Skin Contact: Eye Contact:	May cause an allergic skin reaction. Causes serious eye irritation.
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	ces (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

SAFTEY DATA SHEET



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	findings to humans is not	ites and live litter size. The significance of these known. [Octamethylcyclotetrasiloxane] IOAEL 500mg/kg/day (Rat), Maternal toxicity: at) [Alkoxysilane]
Specific Target Organ Toxicity – Single Exposure:	Not available.	
Specific Target Organ Toxicity – Repeated Exposure:	repeated exposure: Cardiovascular / Hematol	e following organs through prolonged or ogical: hematopoiesis. [Vinyloximesilane] ogical: hematopoiesis. [Methyloximesilane]
	octamethylcyclotetrasilox histopathological or signif An increase in liver metab in the number of normal of size (hypertrophy) were d liver enlargement. The bio are highly sensitive in rod insensitive. A two year co conducted on octamethyl whole-body vapor inhalat 0, 10, 30, 150 or 700ppm incidence of (uterine) end (benign tumors) were obs effects only occurred at 7 workplace or consumer et	
Aspiration Hazard:	Not classified based on av	vailable information.
Further Information:	Methyl Ethyl Ketoxime (MEKO). Material will generate MEKO on exposure to humid air gradually. Male rodents exposed to MEKO vapor at high concentration throughout their lifetime developed liver cancer. But relevance to humans is uncertain now. Please read the detail information 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



Product Identifier: ASI 335 Clear

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Acute Inhalation Toxicity: Inhalation Toxicity:	LC50(rat) > 4.83mg/l/4Hr 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.
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 Exposure Level:	Vendor guide: 3ppm(TWA), 10ppm(STEL) 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]

Component Analysis – Aquatic Toxicity

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



Product Identifier: ASI 335 Clear

			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
Persistence a	and Degradability:	Causes e	easily hyd	rolysis in water or atr	nosphere. [Alkoxy	/silane]
Bioaccumulative Potential:				n Factor(BCF) / (Fathe tetrasiloxane]	ad minnows) : 12	400
Biodegration:		-		vailable for the produ	ct.	

Section 13: Disposal Considerations		
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.
	5 5 5

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



Product Identifier: ASI 335 Clear

SARA 302 Extremely Hazard Substances:		ainad in	produc	+						
		None contained in product.								
SARA 304:	Not applica									
SARA 311/312:	None know	/n.								
SARA 313:	TRI reporti	ng								
TSCA:	All compon	ients of	this pro	oduct are li	isted o	ו TSCA	Invento	ory.		
US State Regulations										
Massachusetts Right-to-H	Know - Substance L	ist:		Not regu	lated					
New Jersey Worker and (Community Right-to	o-Know	Act:	Not liste	d					
Pennsylvania Worker and	d Community Right	-to-Kno	w Law:	Not liste	d					
Rhode Island Right-to-Kn	ow:			Not regu	lated					
California Proposition 65:	This product	does no	ot conta	in any che	micals	known	by the	State o	f Califo	rnia
	to cause cand			-						
Component Analysis – Inte	rnational Inventori	ies								
Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Methylethylketoxime	96-29-7	Vos	וצם	EINECS	Voc	Voc	νος	Voc	Voc	Voc

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	
Issue Date:	06/26/2015
Revision:	1
NFPA Ratings:	
Health:	2
Fire:	1 20
Reactivity:	0
Hazard Scale	: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS III:	
	HEALTH 2
	FLAMMABILITY 1
	PHYSICAL HAZARD 0
0 = Not Significa	ant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic
5	
Key/Legend:	
	a); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI d); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH



Threshold Limit Values (TLV); NIOSH REL – USA. NIOSH Recommended Exposure Limits; OSHA PO – USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000; OSHA Z-1 – USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts; ACGIH / TWA – 8-hour, time-weighted average; NIOSH REL / TWA – Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek; NIOSH REL / ST – STEL – 15-minute TWA exposure that should not be exceeded at any time during a workday; OSHA PO / TWA - 8-hour, time-weighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; OSHA Z-3 / TWA - 8-hour, time-weighted average

Disclaimer:

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

End of Document







chemical-concepts.com 800.220.1966 410 Pike Road • Huntingdon Valley, PA 19006 SAFETY DATA SHEET

Document #: SDS 024 Revision: 1 Issue Date: 06/26/2015 Page 1 of 11

ASI 335 Black

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 Black RTV rubbers (for electrical, electronic and general industry (gluing and sealing)) Industrial use only.

Section 2: Hazard(s) Identification

Classification in accordance with 29 CFR 1910.1200. 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)

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): Treat symptomatically and supportively.



Warning Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Cardiovascular/Hematological: hematopoiesis) 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.



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	Do not breathe dust/fume/gas/mist/vapors/spray. 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.

	oosition/Information on Ingredients	
<u>CAS</u>	Component	Percent
Proprietary	Methyloximesilane	1 - < 3
Proprietary	Vinyloximesilane	< 1
Proprietary	Alkoxysilane	< 1
1333-86-4	Carbon black	< 0.2
96-29-7	Methylethylketoxime (Impurity)	< 1
556-67-2	Octamethylcyclotetrasiloxane (Impurity)	< 1

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.



Product Identifier: ASI 335 Black

Section 5: Fire-Fighting Measures	
Suitable Extinguishing Media:	Use carbon dioxide, regular dry chemical powder, alcohol-resistant foam, or water fog.
Unsuitable Extinguishing Media:	None known.
Specific Hazards Arising from the Chem Hazardous Decomposition Products:	ical 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.

Section 6: Accidental Release Measur	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.			

Section 7: Handling and Storage	
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.



Product Identifier: ASI 335 Black

Document #: SDS 024 Revision: 1

	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: Expo	osure Controls/Pers	onal Protecti	ion		
Component Expo	osure Limits				
CAS	Component		Exposure Limits		
			ACGIH: 3 mg/m3 TWA (Inhalable fraction)		
1333-86-4 Carbon black		OSHA Z-1: 3.5 mg/m3 PEL			
			NIOSH REL: 0.1 mg/m3 TWA		
			WEEL: 36 mg/m3 TWA		
96-29-7	Methylethylketo	oxime	10 ppm		
	(Impurity)		Vendor: 10 ppm STEL; 3 ppm TWA		
			Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.		
		door open for at least 24 hours after application.			
Individual Prote	ction Measures				
Eye/Face Protect	tion:	Wear tight	Wear tightly sealed safety glasses according to EN 166.		
		Provide an the immed	Provide an emergency eye wash fountain and quick drench shower ir the immediate work area.		
Skin Protection: Skin shou		Skin should	should be washed after contact.		
Hand Protection	:	Wear protective gloves. Wash hands before breaks and at the end workday.			
			concentrations are above the applicable exposure limits, approved respiratory protection.		

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Appearance:	Paste
Color:	Black	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)	Evaporation Rate:	< 1 (Butyl Acetate=1)
	Closed cup		
OSHA Flammability Class:	Not classified as a	Vapor Pressure:	Negligible (25 °C)
	flammability hazard		



Product Identifier: ASI 335 Black

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%
Volatility:	Not available	Molecular Formula:	Not applicable

Section 10: Stability and Reactivity	y
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.

Acute Toxicity	oxicological Information nalysis – LD50/LC50				
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
1333-86-4	Carbon Black	LD50 Oral	Rat	>8000 mg/kg	N/A
06 207	Methylethylketoxime	LD50 Oral	Rat	930 mg/kg	N/A
96-297	(Impurity)	LD50 Dermal	Rabbit	200 µl/kg	N/A

Information on Likely Routes of Exposure

No significant effects are expected.

Inhalation:



Product Identifier: ASI 335 Black

No significant effects are expected.
May cause an allergic skin reaction.
Causes serious eye irritation.
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.
No information is available.
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]
Not available.
May cause an allergic skin reaction. [Methyloximesilane] [Vinyloximesilane] [Methylethylketoxime]
Positive (Guinea pig) [Alkoxysilane] No evidence of sensitization [Octamethylcyclotetrasiloxane]
Negative(Ames test, Chromosome analysis, Micronucleus test) [Alkoxysilane] Negative(Bacteria) [Octamethylcyclotetrasiloxane]
Suspected of causing cancer. [Methylethylketoxime] The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards: Carbon black

Component Carcinogenicity

CAS	Component	Result
1333-86-4	Carbon Black	IARC: Group 2B (possibly carcinogenic to humans)

OSHA Specifically Regulated Substances (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



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	exposed to vapor concentration sit number of implantation sit findings to humans is not k	a). In a previous range-finding study, rats ations of 700 ppm had decreases in the es and live litter size. The significance of these nown. [Octamethylcyclotetrasiloxane] DAEL 500mg/kg/day (Rat), Maternal toxicity: [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: Cardiovascular / Hematological: hematopoiesis. [Vinyloximesilane] Cardiovascular / Hematological: hematopoiesis. [Methyloximesilane]	
	octamethylcyclotetrasiloxa histopathological or signific An increase in liver metabol in the number of normal ce size (hypertrophy) were de liver enlargement. The biod are highly sensitive in roder insensitive. A two year com conducted on octamethylco whole-body vapor inhalatio 0, 10, 30, 150 or 700ppm o incidence of (uterine) endo (benign tumors) were obse effects only occurred at 700 workplace or consumer exp	
Aspiration Hazard:	Not available.	
Further Information:	to humid air gradually. Mal concentration throughout	KO). Material will generate MEKO on exposure e rodents exposed to MEKO vapor at high heir lifetime developed liver cancer. But ertain now. Please read the detail information
	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



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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.
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 Exposure Level:	Vendor guide: 3ppm(TWA), 10ppm(STEL) 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]

Component Analysis – Aquatic Toxicity

CAS	Component	Aquatic	Result	Species	Dose	Exposure
		Fish	LC50	Bluegill (<i>Lepomis</i> macrochirus)	>100 mg/L	96 hr
Duranistan			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 (Daphnia magna)	90 mg/L	48 hr



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		Algae	EbC50	Green algae (Selenastrum capricornutum)	5.5 mg/L	72 hr
			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
Persistence a	nd Degradability:	Causes e	easily hyd	rolysis in water or atr	nosphere. [Alkoxy	/silane]
Bioaccumula	tive Potential:			n Factor(BCF) / (Fathe tetrasiloxane]	ad minnows) : 124	400
Mobility in So	oil:	No infor	mation a	vailable for the produ	ct.	
Biodegration	:	No infor	mation a	vailable for the produ	ct.	

Section 13: Disposal Considerations				
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,



Product Identifier: ASI 335 Black

Octamethylcyclotetrasiloxane

(Impurity)

29 CFR 1910.1200.										
OSHA Specifically Regulated Subs SARA 302 Extremely Hazardous	stances (29 CFF	R 1910.1	.001-10	050): No	ot listed	ł				
Substances:	None contai	ined in p	oroduct	t.						
SARA 304:	Not applical	ole.								
SARA 311/312:	None knowi									
SARA 313:	TRI reportin	g								
TSCA:	All compone	ents of t	his pro	duct are li	isted or	n TSCA	Invento	ory.		
US State Regulations Massachusetts Right-to-Know New Jersey Worker and Comn Pennsylvania Worker and Com Rhode Island Right-to-Know:	nunity Right-to	-Know A		Carbon b Carbon b Carbon b Not regu	olack (1 olack (1	333-86	-4)			
California Proposition 65: Component Analysis – Internatio	WARNING! Th cause cancer. The following respirable dus pose hazards:	materia ts. Whe Carl	l is em	bedded in as intend	the pro	oduct a	nd not	availab	le as	
Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Carbon black	1333-86-4	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes
Methylethylketoxime (Impurity)	96-29-7	Yes	DSL	EINECS	Yes	Yes	Yes	Yes	Yes	Yes

Section 16: Other Informa	ation		
Issue Date:	06/26/	/2015	
Revision:	1		
NFPA Ratings:			
Heal	th: 2		
Fi	ire: 1		
Reactiv	ity: 0	\sim	
Hazai	rd Scale: 0 =	Minimal 1 = Slight 2 = Mo	derate
HMIS III:			
		HEALTH	2
		FLAMMABILITY	1
		PHYSICAL HAZARD	0

556-67-2

Yes

DSL

EINECS

Yes

Yes

Yes

Yes

Yes

Yes



0 = Not Significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Key/Legend:

AICS (Australia); DSL (Canada); IECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI (Korea); NZIOC (New Zealand); PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH Threshold Limit Values (TLV); NIOSH REL – USA. NIOSH Recommended Exposure Limits; OSHA PO – USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000; OSHA Z-1 – USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminates; OSHA Z-3 – USA. Occupational Exposure Limits (OSHA) – Table Z-3 Mineral Dusts; ACGIH / TWA – 8-hour, time-weighted average; NIOSH REL / TWA – Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek; NIOSH REL / ST – STEL – 15-minute TWA exposure that should not be exceeded at any time during a workday; OSHA P0 / TWA - 8-hour, time-weighted average; OSHA Z-1 / TWA - 8-hour, time-weighted average; OSHA Z-3 / T

Disclaimer:

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

End of Document







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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.

Treat symptomatically and supportively.

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.



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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. ical
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		
Descend Dressutions, Dretastive		
Personal Precautions, Protective	Koon unnecessary personnel away	
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	
	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

Component Exposi	ure Limits		
CAS	Component		Exposure Limits
			WEEL: 36 mg/m3 TWA
96-29-7	Methylethylketo (Impurity)	xime	10 ppm
	(impunty)		Vendor: 10 ppm STEL; 3 ppm TWA
Appropriate Engine	eering Controls:	Provide adeo Provide eyev	quate general and local exhaust ventilation. vash station.
		-	n to ventilation such as local exhaust, mechanical and/or
		door open fo	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.
		the infineura	te work area.
Skin Protection:		Skin should b	be washed after contact.
Hand Protection:		Wear protec workday.	tive gloves. Wash hands before breaks and at the end of
Respiratory Protect	tion:		oncentrations are above the applicable exposure limits, oproved respiratory protection.

Physical State:	Liquid	Appearance:	Paste
,	1		
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)	Evaporation Rate:	< 1 (Butyl Acetate=1)
	Closed cup		
OSHA Flammability Class:	Not classified as a	Vapor Pressure:	Negligible (25 °C)
	flammability hazard		
Vapor Density (air = 1):	> 1 (air=1)	Density:	1.03 (25 °C)
pecific 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%



Product Identifier: ASI 335 Aluminum

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		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	
96-297 Methylethylketoxime (Impurity)		LD50 Oral	Rat	930 mg/kg	N/A	
		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	May cause an allergic skin reaction.				



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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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		gical: hematopoiesis. [Vinyloximesilane] gical: hematopoiesis. [Methyloximesilane]				
	octamethylcyclotetrasiloxa histopathological or signific An increase in liver metabor in the number of normal ce size (hypertrophy) were de liver enlargement. The bioo are highly sensitive in rode insensitive. A two year com conducted on octamethylc whole-body vapor inhalatio 0, 10, 30, 150 or 700ppm o incidence of (uterine) endo (benign tumors) were obse effects only occurred at 70 workplace or consumer exp or consumer uses of produ	lation or oral exposure of mice and rats to lotetrasiloxane produced an increase in liver size. No gross cal or significant clinical chemistry effects were observed. liver metabolizing enzymes, as well as a transient increase of normal cells (hyperplasia) followed by an increase in cell ohy) were determined to be the underlying causes of the ent. The biochemical mechanisms producing these effects sitive in rodents, while similar mechanisms in humans are wo year combined chronic and carcinogenicity assay was octamethylcyclotetrasiloxane. Rats were exposed by upor inhalation 6hrs/day, 5days/week for up to 104weeks to or 700ppm of octamethylcyclotetrasiloxane. The increase in iterine) endometrial cell hyperplasia and uterine adenomas s) were observed in female rats at 700ppm. Since these curred at 700ppm, a level that greatly exceeds typical consumer exposure, it is unlikely that industrial, commercial ses of products containing octamethylcyclotetrasiloxane a significant risk to humans. clotetrasiloxane]				
Aspiration Hazard:	Not classified based on ava	ilable information.				
Further Information:	Methyl Ethyl Ketoxime (MEKO). Material will generate MEKO on to humid air gradually. Male rodents exposed to MEKO vapor at concentration throughout their lifetime developed liver cancer. I relevance to humans is uncertain now. Please read the detail info 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.				



Product Identifier: ASI 335 Aluminum

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	
		LC50	Bluegill (<i>Lepomis</i> macrochirus)	>100 mg/L	96 hr		
		Fish	LC50	Fathead minnow (Pimephales promelas)	>100 mg/L	96 hr	
Proprietary	Alkoxysilane		LC50	Rainbow trout (Oncorhynchus mykiss)	>100 mg/L	96 hr	
Aikoxysiiaile	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 ar	e listed on TSCA Inventory.
US State Regulations		
Massachusetts Right-to-Know -	Substance List: Not re	egulated



Product Identifier: ASI 335 Aluminum

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	
Issue Date: Revision:	6/24/15 1
NFPA Ratings:	1
Health:	2
Fire:	
Deactivity	
Reactivity:	0
Hazard Scale: 0 =	Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS III:	
	HEALTH 2
	FLAMMABILITY 1
	PHYSICAL HAZARD 0
0 = Not Significant,	1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic
Key/Legend:	
	ECSC (China); REACH (European Union); ENCS (Japan); ISHL (Japan); KECI
	PICCS (Philippines); TCSI (Taiwan); TSCA (USA); ACGIH – USA. ACGIH IOSH 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 –
	tration 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;
OSHA Z-3 / TWA - 8-hour, time-	

Disclaimer:



Product Identifier: ASI 335 Aluminum

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

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