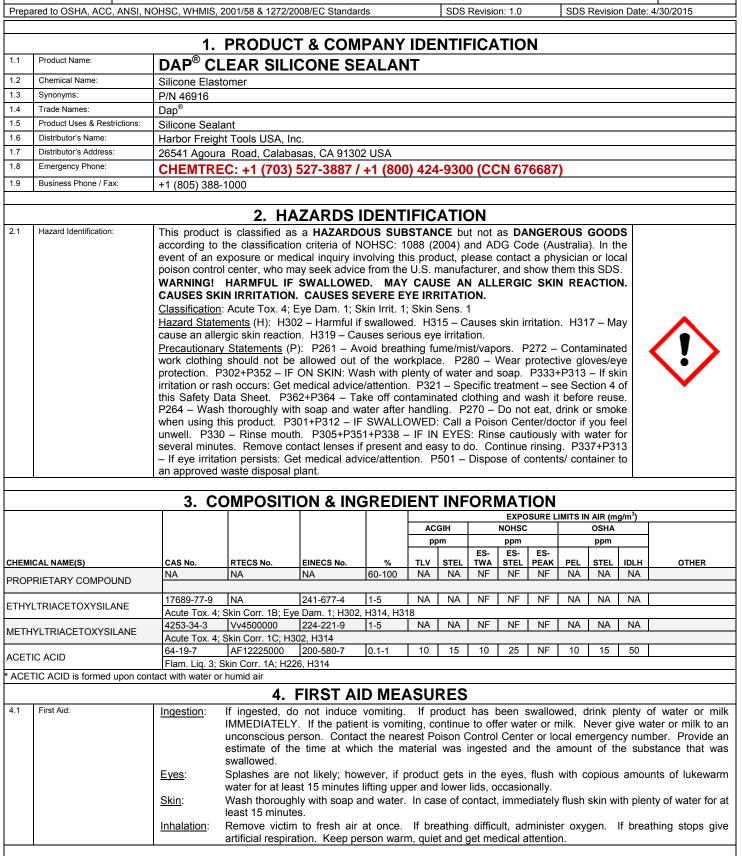
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015 4. FIRST AID MEASURES - cont'd 42 Effects of Exposure: If product is swallowed, may cause gastrointestinal disturbance. Ingestion: Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. If material is heated or high vapor concentration is attained, central nervous system depression, confusion, or loss of coordination. 4.3 Symptoms of Overexposure: Ingestion: If product is swallowed, may cause gastrointestinal disturbance. Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 4.4 Acute Health Effects: Non-irritating when used as directed. Moderate irritation to eves and skin near affected areas. Additionally, high concentrations of dust can cause ccoughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. 4.5 Chronic Health Effects: Non-irritating when used as directed. Possible allergic dermatitis in some sensitive individuals 4.6 Target Organs: Eyes, Skin. 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions. HEALTH 2 Aggravated by Exposure: FLAMMABILITY 1 PHYSICAL HAZARDS 0 **PROTECTIVE EQUIPMENT** В EYES SKIN 5. FIREFIGHTING MEASURES 51 Fire & Explosion Hazards: This material can burn but will not readily ignite. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO_x, Hydrocarbons). When heated above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapors. 5.2 Extinguishing Methods: CO₂, Dry Chemical, Alcohol foam, Dry Chemical. Use water spray to cool containers. 53 Firefighting Procedures: Keep containers cool until well after the fire is out. Fight fires as for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fireexposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of drains, municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Use normal hygiene practices. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices. Recommended maximum shelf life: 36 months. 7.3 Special Precautions: Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Use reasonable care and store away from oxidizing materials. Keep away from water and moisture.

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8.1	Exposure Limits:	ACGIH NOHSC OSHA OTHER	
0.1	ppm (mg/m ³)	CHEMICAL NAME(S) TLV STEL ES-TWA ES-STEL ES-PEAK PEL STEL IDLH	
		*ACETIC ACID is formed upon contact with water or humid air	
		ACETIC ACID 10 15 10 25 NF 10 15 50	-
8.2	Ventilation & Engineering Controls:	The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommo occupational exposure limits, whenever this material is used in a confined space, is heated above normal temper (up to 38°C) or is agitated. When heated above 150 °C (300 °F) in the presence of air, product can form forma	erature aldehyd
		vapors. <u>Acetic Acid</u> is formed upon contact with water or humid air. Provide adequate ventilation to control ex within guidelines.	posure
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.	
8.4	Eye Protection:	Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable eye wash water available.	
8.5	Hand Protection:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected.	
8.6	Body Protection:	Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove oil contaminated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded.	
		9. PHYSICAL & CHEMICAL PROPERTIES	
9.1	Appearance:	Colorless paste.	
9.2	Odor:	Acetic acid odor .	
9.3	Odor Threshold:	NA	
9.4	pH:	NA	
9.5	Melting Point/Freezing Point:	NA	
9.6	Initial Boiling Point/Boiling Range:	NA	
9.7	Flashpoint:	> 100 °C (212 °F), closed cup	
9.8	Upper/Lower Flammability Limits: Vapor Pressure:	NA NA	
9.10	Vapor Density:	NA	
9.11	Relative Density:	1.007	
9.12	Solubility:	Insoluble	
9.13	Partition Coefficient (log Pow):	NA	
9.14	Autoignition Temperature:	NA	
9.15	Decomposition Temperature:	NA	
9.16	Viscosity:	NA	
9.17	Other Information:	NA	
		10. STABILITY & REACTIVITY	
10.1	Stability:	Stable at normal temperatures.	
10.2	Hazardous Decomposition Products:	Fumes, smoke, carbon monoxide, silicon oxides and traces of incompletely burned carbon compounds. When above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapors.	1 heate
10.3	Hazardous Polymerization:	Will not occur.	
10.4	Conditions to Avoid:	Open flames, sparks, high heat, and close proximity to incompatible substances.	
10.5	Incompatible Substances:	Strong oxidizing agents, water, moisture or humid air can cause vapors to form	
		11. TOXICOLOGICAL INFORMATION	
1.1	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES	
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literative available for some of the components of the product and is not presented in this document.	ature,
11.3	Acute Toxicity:	See section 4.4	
1.4	Chronic Toxicity:	See section 4.5	
	Suspected Carcinogen:	No	

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пери		CHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015
		11. TOXICOLOGICAL INFORMATION – cont'd
1.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.
1.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
1.8	Biological Exposure Indices:	NE
1.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
2.1	Environmental Stability:	There is no specific data available for this product.
2.2	Effects on Plants & Animals:	There are no specific data available for this product.
2.3	Effects on Aquatic Life:	There are no specific data available for this product.
		13. DISPOSAL CONSIDERATIONS
3.1	Waste Disposal:	Dispose of in accordance with federal, state, provincial and local regulations.
3.2	Special Considerations:	NA
		14. TRANSPORTATION INFORMATION
		nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
4.1	49 CFR (GND):	NOT REGULATED
4.2	IATA (AIR):	NOT REGULATED
4.3	IMDG (OCN):	NOT REGULATED
4.4	TDGR (Canadian GND):	NOT REGULATED
4.5	ADR/RID (EU):	NOT REGULATED
4.6	SCT (MEXICO):	NOT REGULATED
4.7	ADGR (AUS):	NOT REGULATED
		15. REGULATORY INFORMATION
5.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.
5.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.
5.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory or are otherwise exempt.
5.4	CERCLA Reportable Quantity (RQ):	NA
5.5	Other Federal Requirements:	This product contains petroleum distillates and may be subject to regulation by CWA.
5.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects)
5.7	State Regulatory Information:	Ethyltriacetoxysilane is found on the following state criteria list: New Jersey Right-to-Know List (NJ). <u>Methyltriacetoxysilane</u> is found on the following state criteria list: MA, NJ and PA. No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).

15.8

16.1

16.2

16.3

16.4

16.5

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 4/30/2015 15. REGULATORY INFORMATION – cont'd Other Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Harmful (Xn). Risk Phrases (R): 20/21-35 - Harmful by inhalation and in contact with skin. Causes severe burns. Safety Phrases (S): 7/8-37/39-53-45 - Keep container tightly closed and dry. Wear suitable protective clothing and eve/face protection. Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). **16. OTHER INFORMATION** Other Information: HARMFUL IF SWALLOWED. MAY CAUSE AN ALLERGIC SKIN REACTION. WARNING! CAUSES SKIN IRRITATION. CAUSES SEVERE EYE IRRITATION. Avoid breathing fume/mist/vapors. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection. IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a Poison Center/doctor if you feel unwell. Rinse mouth. 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. Dispose of contents/ container to an approved waste disposal plant. KEEP OUT OF REACH OF CHILDREN. Terms & Definitions: See last page of this Safety Data Sheet. This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other Disclaimer: government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Harbor Freight Tools USA, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. Prepared for: Harbor Freight Tools USA, Inc. 26541 Agoura Road HARBOR FREIGHT TOOL Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com Prepared by: ShipMate. Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700

http://www.shipmate.com

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number

EXPOSURE	LIMITS IN AIR:
ACGIH	American Conference on Governmental Industrial Hygienists
С	Ceiling Limit
ES	Exposure Standard (Australia)
IDLH	Immediately Dangerous to Life and Health
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
FIRST AID M	EASURES:

Cardiopulmonary resuscitation - method in which a person whose heart has CPR stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

HMIS-	III HEALTH, FLAMMABILITY & I	REA	CTIVITY RATINGS:
0	Minimal Hazard		HEALTH
1	Slight Hazard		FLAMMABILITY
2	Moderate Hazard		PHYSICAL HAZARDS
3	Severe Hazard		PERSONAL PROTECTION
4	Extreme Hazard		

PERSONAL PROTECTION RATINGS:

ppm parts per million

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature

LEL UEL

SCBA Self-Contained Breathing Apparatus NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

source of ignition

Α	0					G		E			
В						Н		E		ない	8
С	0		E.			I	0	F		3	
D	B		E.			J		E		T	8
Е						Κ	5	E		Ŕ	
F			内 日 日			Х	Consult special I				
Sa	Safety Glasses		es Splash Goggles		F	Face Shield & Protective Eyewear			Gloves		
	Boots		Syntheti	ic Apron	F		tive Cloth	hing	Dus	t Resp	irator
									Î		
Full Face Respirator Dust & Vapor Half- Mask Respirator					Full Face Respirator			Airline Hood/Mask or SCBA			
отн	OTHER STANDARD ABBREVIATIONS:										
	ML										
	ML Maximum Limit mg/m3 milligrams per cubic meter										
	NA Not Available										
	ND	Not De	etermined								
	NE	Not Es	tablished								
	NF	Not Fo	ound								
	NR	No Re	sults								

Minimum temperature required to initiate combustion in air with no other

Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

Upper Explosive Limit - highest percent of vapor in air, by volume, that will

explode or ignite in the presence of an ignition source

1 3 2 1 3 3 4 1 ACD / ALK / COR 0 W 1 OX 0	Minimal Haz Slight Hazar Moderate H Severe Haz Extreme Ha				FL	AMMABILITY				
2 3 3 4 ACD / ALK / COR (W 1 OX (Moderate H Severe Haz					\mathbf{i}		ACTIVITY		
3 3 4 1 ACD // ALK // COR 0 ₩ 1 OX 0	Severe Haz						-			
ACD / ALK / COR (W) OX (Extromo Ha	ard								
ALK COR		zard				$\langle 1 \rangle$	2	<u>></u>		
COR (W (OX (Acidic					X /		/		
₩ OX	Alkaline				1		₩У			
OX	Corrosive Use No Wat	for			HEALTH					
	Oxidizer							ECIAL		
	Radioactive						PR	ECAUTIONS		
FOXICOLOG	ICAL INF	ORMAT	ON:							
	LD ₅₀	Lethal E s	ose (soli	ds & liqui	ds) whi	ich kills 50%	of the expos	ed animals		
	LC ₅₀	Lethal c	oncentrat	tion (gase	s) whic	h kills 50% o	of the expose	d animal		
	ppm	Concen	Lethal concentration (gases) which kills 50% of the exposed animal Concentration expressed in parts of material per million parts							
	TD _{lo}	Lowest dose to cause a symptom								
	TCLo		Lowest concentration to cause a symptom							
TD ₁₀ , LD ₁₀ TC, TC ₀ , L	, & LD₀ or C₀, & I C₀	Lowest	dose (or o	concentra	tion) to	cause letha	I or toxic effe	cts		
10, 10 ₀ , L		Internat	International Agency for Research on Cancer							
	NTP	National Toxicology Program								
	RTECS	Registry	Registry of Toxic Effects of Chemical Substances							
	BCF		Bioconcentration Factor							
	TL _m	Median threshold limit								
			ent of Oil/	vvater Di	stributio	on				
					llafor	nation Syste				
	U.S. Depart					nation Syste	a11			
	Transport C		anopoita							
	U.S. Enviror		rotection	Agency						
			mestic Substance List							
		cupational Health and Safety Commission (Australia)								
			on-Domestic Substance List							
	Canadian P									
	U.S. Toxic S European II				tivo 67	(548/EEC)				
	-	nion (European Union Directive 67/548/EEC) hrdungsklassen (German Water Hazard Class)								
	-						Identification	n System		
NORKPLACI										
\bigcirc	٠	٩	Q) (D	۲				
	lass B (Class C	Class D'	1 Clas	is D2	Class D3	Class E	Class F		
Class A Cl	mmable C	Dxidizing	Toxic	Irrit	ation	Infectious	Corrosive	Reactive		
		RMATIC	DN:							
ompressed Flar	EC) INFO									
ompressed Flar		Se la	¥		3	*	×	×		
ompressed Flar	EC) INFO	The second secon	N) 0	Т	Xi	Xn		
rest of the second seco	E	×	N		O dizing	T	Xi	Xn Harmful		
c c c c c c c c c c c c c c c c c c c	E Flosive	F ammable	Harmfu	I Oxio						
c Flar	E Flosive	F ammable	Harmfu	I Oxio						
c Corrosive	E Flosive	F ammable	Harmfu	I Oxio						

Harmful

Irritating

Corrosive

Toxic

Pressurized

Flammable

Explosive

Oxidizer

Health

Hazard

Environmer