		JCT AND COMPANY IDENTIFICATION
Product Name:	#500 Silicone Clear	and Colors
Company:	POLYGEM INC.	
	PO Box 609	
	West Chicago, Illino	bis 60186
Telephone:	630-231-5600	
	630-231-5604 (Fax Line)	
Emergency Telephone Number:	1-800-535-5053	USA
	01-352-323-3444	International

Section 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Physical Hazards: Not Classified

Health Hazards: Reproductive toxicity (fertility) Catergory 2 Environmental Hazards: Not Classified OSHA Defined Hazards: Not Classified GHS LABEL ELEMENTS:

HAZARD SYMBOLS:



SIGNAL WORD: Warning

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective

HAZARD STATEMENTS: H361: Suspected of damaging fertility or the unborn child

PRECAUTIONARY STATEMENTS:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash ... thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

RESPONSE: P352: Wash with plenty of water/... [As modified by IV ATP]

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves, clothing, and eye/face protection.

P302 + P352 IF ON SKIN: wash with plenty of soap and water

RESPONSE: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical attention.

P337+P313 If eye irritation persists: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

STORAGE: Store Locked up.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and

international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

HMIS RATING:

CHEMICAL NAME	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	х

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective

equipment recommendations.

OSHA GHS Classification

This product is classified as hazardous as defined within the GHS OSH Hazard Communication Standard 29CFR1910 1200

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical Name	CAS #	OSHA PEL*	ACGIH TLV*	WT%
Ethyltriacetoxysilane	1789-77-9	N/E	N/E	1-5
Methylaetoxysilane	4253-34-3	N/E	N/E	1-5
Titanium Dioxide	13463-67-7	N/E	N/E	<1
Distallates (petroleum), hydrotreated mid.	64742-46-7	N/E	N/E	1-7
Octamethylcyclotetrasiloxane (impurity)	556-67-2			<1

GHS/CLP: Skin irrt. 2 - H315; Skin Sens. 1 - H3117; Eye Irrt. 2 - H319

*ALL INGREDIENTS ARE REGISTERED ON TSCA.

*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

Section 4 - FIRST AID MEASURES

Description of First Aid Measures

General advice: consult a physician; show this SDS to doctor in attendance.

In the event of skin contact: Drench the affected area immediately with plenty of water:

Remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes

Seek medical attention if irritation, rash of other adverse effects occur.

In the event of eye contact: Bathe the eye with running water for at least 15 minutes, lifting the upper and

lower eye lids. Get medical attention if symptoms persist.

In the event of exposure by inhalation: Move person to fresh air. Get medical attention if symptoms develop

Most important symptoms and effects both acute and delayed

Skin irritation, allergic reactions.

Indication of immediate medical attention and special treatment needed

No specific antidote; treat symptomatically

Eye wash stations and emergency showers should be available.

Section 5 - FIRE FIGHTING MEASURES

Recommended Extinguishing Media: Foam, carbon dioxide, dry chemicals or fog. Use water spray to cool

fire exposed containers. Do not use direct water stream which may spread fire.

Special Fire Fighting Procedures:

Firefighters should wear protective goggles and self contained breathing apparatus

to avoid inhalation of smoke or vapors. Remove all ignition sources.

Unusual Fire or Explosion Hazards

Exposure to decomposition products may be harmful to health; combustion products may include

but are not limited to: carbon monoxide, carbon dioxide, phenolics, aldehydes; smoke may

contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

Advice for fire fighters: Use protective fire fighting clothing and positive pressure selfcontained

breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the

area of the fire. Additional eye protection such as chemical splash goggles and/or face shield when the possibility exits for eye contact with

splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt.

An apron may be appropriate if splashing can occur.

Section 6: Accidental Release Measures

 Special Protection:
 Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

 Steps to be taken in case of material Is released or spilled:

 Keep unnecessary personell away. Loal authorities should be advised if significant spillage cannot be contained.

Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container.

Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

Transport Emergency Phone Number:

(INFOTRAC) 1-800-535-5053

	Section 7: Handling and Storage	
Handling:	Harmful or irritation material. Avoid contact and avoid breathing the material	aterial
	Use only in a well ventilated area.	
Storage:	Store in a cool, dry place.	
Respiratory Protect	If vapor or mist is generated and the occupational exposure limit is exc	eeded, use appropriate
	NIOSH/MSHA approved self-contained breathing equipment or a full fa	ce respirator.
	Respirators should be selected by and used following requirements for	and in OSHA's respirator
	standards (29 CFR 1910134). Not required for properly ventilation area	ι.
Ventilation:	Local exhaust and general ventilation is recommended.	

Hand Protection:	Section 8: Exposure Control/Pers Nitrile Rubbers gloves.				
Eye Protection:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exits for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.				
Skin and Body Protection:		Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.			
Occupational exposure limits:					
US. OSHA Table Z-1 Limits for Air Conta		_			
Components	CAS #	Туре			
Titanium Dioxide	13463-67-7	PEL	15 mg/m3		
Decomposition	64 10 7	DEI	25 mg/m2		
Acetic Acid	64-19-7	PEL	25 mg/m3		
US. ACGIH Threshold Limit Values			10 ppm		
Components	CAS #	Туре	Value		
Titanium Dioxide	13463-67-7	TWA	10 mg/m3		
Decomposition		1 **/ \	ie inginie		
Acetic Acid	64-19-7	STEL	15 ppm		
		TWA	10 ppm		
US. NIOSH: Pocket Guide to Chemical Haz	zards				
Decomposition					
Acetic Acid	64-19-7	STEL	37 mg/m3		
			15 ppm		
		TWA	25 mg/m3		
			10 ppm		
Biological limit values:		e limits for the ingredient(s			
Appropriate engineering	Provide adequate general and local exhaust. Provide eyewash station. Pay attention to ventilation such as local exhaust, mechanical and/or open door for at least 24 hours after applications.				
	and applications.				
	protection equipment,				
Eye / face protection:	protection equipment, Tightly sealed saftey	glasses according to EN 16	66.		
Eye / face protection: Skin / Hand protection:	protection equipment, Tightly sealed saftey Wear protective glove	es.	56.		
Eye / face protection: Skin / Hand protection: Other:	protection equipment, Tightly sealed saftey Wear protective glove Wear suitable protect	ive clothing			
Eye / face protection: Skin / Hand protection: Other:	protection equipment, Tightly sealed saftey Wear protective glove Wear suitable protect If airborne concentrat	ive clothing ions are above the applicat			
Eye / face protection: Skin / Hand protection: Other: Respiratory protection:	protection equipment, Tightly sealed saftey Wear protective glove Wear suitable protect If airborne concentrat respiratory protection	ive clothing ions are above the applicat	ole exposure limits, use NIOSH approved		
Eye / face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards:	protection equipment, Tightly sealed saftey Wear protective glove Wear suitable protect If airborne concentrat respiratory protection Wear appropriate the	es. ive clothing ions are above the applicat rmal protective clothing, wh	ble exposure limits, use NIOSH approved		
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Eye / face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene:	brotection equipment, Tightly sealed saftey Wear protective glove Wear suitable protect If airborne concentrat respiratory protection Wear appropriate the Do not eat, drink or s and immediately after allowed out of the wo and safety practices. Section 9: Physical and C	ive clothing ions are above the applicat rmal protective clothing, wh moke. Keep away from foc handling the product. Cor rk place. Handle in accord	ole exposure limits, use NIOSH approved nen necessary. od or drink. Wash hands before breaks ntaminated work clothes should not be		
Eye / face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene: Physical state:	brotection equipment, Tightly sealed saftey Wear protective glove Wear suitable protect If airborne concentrat respiratory protection Wear appropriate the Do not eat, drink or s and immediately after allowed out of the wo and safety practices. Section 9: Physical and C Gel	ive clothing ions are above the applicat rmal protective clothing, wh moke. Keep away from for handling the product. Cor rk place. Handle in accord hemical Properties	ole exposure limits, use NIOSH approved nen necessary. od or drink. Wash hands before breaks ntaminated work clothes should not be		
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Individual protection such as personal p Eye / face protection: Skin / Hand protection: Other: Respiratory protection: Thermal hazards: General Hygiene: Physical state: Color: Odor: Weight by gallon: Solids (% by weight) V.O.C. Boiling range: Melting point: Density: Percent volatile: Vapor density (air=1): Vapor pressure (mm Hg):	protection equipment, Tightly sealed saftey Wear protective glowe Wear suitable protect If airborne concentration Wear appropriate the Do not eat, drink or s and immediately after allowed out of the wo and safety practices. Section 9: Physical and C Gel Translucent, White, Black a Acetic odor N/A 100 0 g/L 280 F N/A 1 0 by Weight Heavier than air N/A	ive clothing ions are above the applicat rmal protective clothing, wh moke. Keep away from for handling the product. Cor rk place. Handle in accord hemical Properties	ole exposure limits, use NIOSH approved nen necessary. od or drink. Wash hands before breaks ntaminated work clothes should not be		
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Section 10: Stability and Reactivity

Section 10: Stability and Reactivity				
Stability	Stabla			
Stability: Incompatibility:	Stable			
Hazardous polymerization:	Strong Oxidizers, acids, bases and epoxy hardeners under controlled conditions. Will not occur.			
Hazardous decomposition products:	Carbon Monoxide, Carbon Dioxide, smoke. Others Unknown.			
Conditions to avoid:	Heat and warm storage.			
	ricat and warm storage.			
	Section 11: Toxicologi	cal Information		
Information on likely routes of exposure				
Ingestion:	Expected to be a low ingestion hazard.			
Inhalation:	Prolonged inhalation may be harmful.			
Skin contact:	No adverse effects due to skin contact are expected.			
Eye contact:	Direct contact with eyes may cause temporary irritation.			
Symptoms related to the physical, chemical,				
and toxicological characteristics:	Direct contact with eyes ma	y cause temporary irritation.		
Information on toxicological effects				
Acute toxicity				
Toxicological data	• • -	_		
Decomposition	CAS #	Species	Test Results	
Acetic acid	64-19-7			
Acute				
Dermal		Dath		
LD50		Rabbit	1060 mg/kg	
Inhalation LC 50		Cuinco Big	E000 ppm 1 hours	
EC 50		Guinea Pig Mouse	5000 ppm, 1 hours 5620 ppm, 1 hours	
		Rat	11.4 mg/l, 4hours	
Oral		Nat	11.4 mg/l, 4nouis	
LD50		Mouse	4960 mg/kg	
2000		Rabbit	1200 mg/kg	
		Rat	3.31 g/kg	
Skin corrosion / irritation:	Causes severe skin burns a	nd eye damage. (Acetic acid	0 0	
		ILD (Octamethylcyclotetrasil		
Serious eye damage/eye irritation:	-		: MILD (Octamethylcycotetrasiloxane)	
Respiratory Sensitization:	Not available.			
Skin Sensitization:	No evidence of sensitization	n (Octamethylcycotetrasiloxar	ne)	
Germ Cell Mutagenicity:	Negative (Bacteria) (Octame	ethylcycotetrasiloxane)		
Carcinogenicity:	The following material is em	bedded in the product and no	ot available as respirable dusts.	
	When used as intended or a	as supplied, the product will n	ot pose hazards. Titanium Oxide.	
IARC Monographs,				
Overall Evaluation of Carcinogenicity.	Titanium oxide (CAS 13463	,		
Evaluation of Carcinogenity	2B Possibly carcinogenic to	humans.		
OSHA Specifically	Not listed			
Regulated Substances (29 CFR 1910.1001-1050):	Not listed	o administered to rate burgh	ale body inholation at apparenticity	
Reproductive Toxicity:	•••	•	ole body inhalation at concentrations	
		days prior to mating, through		
			ally, 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			
	• • •	litter size. The significance of these findings to humans is not known.		
	(Octamethylcyclotetrasiloxa	•		
Specific target organ toxicity – single exposure:	Not available	-,		
Specific target organ toxicity – repeated exposure:		exposure of mice and rats to	Octamethylcycotetrasiloxane produced	
	•	•	gnificant clinical chemistry effects	
		• • •	es, as well as a transient increase	
		• •	cells (hyperplasia) followed by an	
			ver enlargement. The biochemical	
	effects are highly sensitive in rodents, while similar mechanisms in these humans are insensitive.			
	A two year combined chroni	c and carcinogenicity assay	was conducted on	

Aspiration hazard:	Section 11: Toxicological Information (Continued) Octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor mechanisms producing inhalation 6hrs /day, 5 days a week for up to 104 weeks to 0, 10, 30, 150 or 700 ppm of hyperplasia and uterine adenomas (benign tumors) were observed in female rats at 700 ppm. Since these effects only occurred at 700 ppm, 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. Not available			
Chronic effects:	Prolonged i	nhalation may be harmful. Prolonged expos	sure may cause chronic effects.	
Further Information:	This product reacts with water, moisture or humid air to evolve following compounds: Acetic acid.			
		Section 12: Ecological Information		
Ecotoxicity	C	Octamethylcyclotetrasiloxane: May cause lo	ong lasting harmful effects to aquatic life.	
Components		Species	Test Results	
Titanium oxide				
(CAS 13463-67-7)				
Aquatic				
Crustacea	EC50	Water Flea (Daphnia magna)	> 1000 mg/l, 48 hours	
Fish	LC50	Mummichog (Fundulus Heteroclitus)	> 1000 mg/l, 96 hours	
Decomposition				
Acetic acid				
(CAS 64-19-7)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia Magna)	65 mg/l, 48 hours	
Fish	LC50	Bluegill (Leponis Macrochirus)	75mg/l, 96 hours	
Persistence and degradability: Not ava Bioaccumulative potential: Bio concent Mobility in Soil: Not available. Other adverse effects: Not available		3CF) / (Flathead minnow): 12400 Octameth	nylcyclotetrasiloxane.	
		Section 13: Disposal Considerations		
	I via incineratio	t the definition of hazardous waste under L on at an approved facility is recommended.	J.S. EPA Hazardous	

Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: Not Regulated **IATA**: Not Regulated

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
 SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

 SARA 313 (TRI reporting)
 US State Regulations

 - Massachusetts: Substance List: Titanium oxide (CAS 13463-67-7)

 - New Jersey Worker and Community Right to Know Act:
 Titanium oxide (CAS 13463-67-7)

 - Pennsylvania Worker and Community Right to Know Act:
 Titanium oxide (CAS 13463-67-7)

 - Rhode Island RTK: Not regulated.

 - California Proposition 65: 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.

- US California Proposition 65 – CRT: Listed date / Carcinogenic substance

Titanium oxide (CAS 13463-67-7) Listed: September 2, 2011

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes

	Section 15: Regulatory Information (Continued)		
Canada	Non Domestic Substances (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes	
Europe	European Inventory of Existing Commercial Chemicals	Yes	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes	
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
United States	Toxic Substances Control Act (TSCA) Inventory	Yes	
A "Maa" indicates that all same	n na na tanàn ang dia ang ang ang ang ang ang ang ang ang an		

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country. A "No" indicates that one or more components of the product are not listed or exempted from listing on the inventory administered by the governing country.

Section 16: Other Information

This information is furnished without warranty, representation inducement or license of any kind, except that is accurate to the best of Polygem Inc. knowledge, or obtained from sources believed by Polygem Inc. to be accurate and Polygem Inc. does not assure any legal responsibility for use reliance upon the same. Customers are encouraged to conduct their own tests. Before using any product, please read its label.

Revision Date: 03/2023

www.polygem.com