

LOCTITE Aquarium Silicone 302 TB

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite Clear Silicone
 Product Type: Silicone
 IDH: 908570

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	
Poly(dimethylsiloxane), dimethyl	63148-62-9	85-90
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	5-10
Ethyltriacetoxysilane	17689-77-9	1-5
Methyltriacetoxysilane	4253-34-3	1-5
ACETIC ACID	64-19-7	

***When this product is exposed to moisture, 3-5% acetic acid is formed.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust
ACETIC ACID	10 ppm TWA 25 mg/m3	10 ppm TWA 25 mg/m3	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
ACETIC ACID	15 ppm 37 mg/m3	None	

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. Moderate by ingestion. When heated to temperatures above 3000F (1500C) in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by

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3. HAZARDS IDENTIFICATION

(continued)

Primary Routes of Entry: keeping vapor concentrations below the OSHA permissible limit for formaldehyde.
 Signs and Symptoms of Exposure: Skin, ingestion, inhalation.
 Existing Conditions Aggravated by Exposure: Acetic acid produced during cure irritates eyes, nose, and throat.
 Prolonged or repeated exposure may irritate skin.
 Methyltriacetoxysilane: Eye, skin, and pulmonary disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Poly(dimethylsiloxane), dimethyl	IRR	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
Ethyltriacetoxysilane	No Data	NO	NO	NO
Methyltriacetoxysilane	NTO	NO	NO	NO
ACETIC ACID	ALG COR EYE GAS IMM IRR KID	NO	NO	NO

Abbreviations

N/A Not Applicable	ALG Allergen
COR Corrosive	EYE Eyes
GAS Gastrointestinal.	IMM Immune system
IRR Irritant	KID Kidney
NTO No Target Organs	NUI Nuisance dust

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: Remove to fresh air. Treat symptomatically.
 Skin Contact: Wipe off paste with paper towel or cloth. Wash exposed area with soap and water.
 Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200oF Method: Tag Closed Cup
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

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AVON, OH 44011
TELEPHONE: (440) 937-7000

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5. FIRE FIGHTING MEASURES

(continued)

Special Firefighting

Procedures: Not available

Hazardous Products formed

by Fire or Thermal Decomp Acetic acid, formaldehyde, silica fume.

Unusual Fire or

Explosion Hazards: None

Explosive Limits:

(% by volume in air) Lower Acetic acid: 4%

(% by volume in air) Upper Acetic acid: 19.9% at 200oF.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:**Wipe or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well ventilated place and allow to cure to rubber.**

7. HANDLING AND STORAGE

Safe Storage:

Store in a dry area below 90oF. Keep container closed when not in use.

(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling:

Avoid breathing vapor. Avoid eye or skin contact. Acetic acid vapor released during application and cure. Do not wear contact lenses while applying material. Vapor may be trapped under lens.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Rubber or plastic gloves.

Ventilation:

Provide local ventilation for prolonged use in confined area.

Respiratory

Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear paste

Odor:

Sharp, Irritating

Boiling Point:

Not Applicable, Polymeric material

pH:

Does not apply

Solubility in Water:

Polymerized

Specific Gravity

1.01

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9. PHYSICAL AND CHEMICAL PROPERTIES

(continued)

Volatile Organic Compound
(EPA Method 24) 3.08%
Vapor Pressure: 10mm at 80oF
Vapor Density: Not available
Evaporation Rate
(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Polymerized by contact with moisture. Acetic acid liberated.
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

Oral LD50 - 2060 mg/kg.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Cured rubber scrap can be incinerated. Follow EPA and local regulations.

EPA Hazardous Waste Number NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

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15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard:
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard:
Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.

**NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.**

Prepared by:

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