



### Section 1.-PRODUCT IDENTIFICATION:

ITW United Silicone 4471 Walden Avenue Lancaster, NY 14086 TELEPHONE: 716-681-8222

# **TL90** Thermosil

Undefined

Undefined

Not determined

Silicone Dioxide

Revision Date: 11/05/2019

### Emergency Response Number 1 (800) 535-5053

Dimethyl siloxane, dimethylvinyl-terminated

Silicone rubber, silicone elastomer

Industrial manufacture of silicone parts

- 1.1 IUPAC Name:
- 1.2 Synonyms:
- 1.3 Molecular Formula:
- 1.4 Structural Formula:
- 1.5 Purity (w/w):
- 1.6 Significant impurities or additives:
- 1.7 Known Uses:

#### Section 2.-HAZARD IDENTIFICATION:

**GHS Classification** 

Reproductive toxicity:

Category 2

GHS Label elements, including precautionary statements

Pictogram:

Signal word:

Hazard statements(s):

H361. Suspected of damaging fertility or the unborn child.

Warning

Precautionary statements(s):

- P201. Obtain special instructions before use.
- P202. Do not handle until all safety precautions have been read and understood.
- P280. Wear protective gloves / protective clothing/ eye protection/ face protection.
- P308. + P313. IF exposed or concerned: Get medical advice/ attention.
- P405. Store locked up.
- P501. Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification: health 0, Flammability 1, Physical 0

NFPA Profile: Health 0, Flammability 1, Instability/Reactivity 0

The classification is based on expected routes of exposure. Please review for unusual applications of this product. This classification has been made under GHS classification systems.



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# Section 3.-COMPOSITION/INFORMATION ON INGREDIENTS:

Silicone Rubber or Silicone Rubber Crepe

CAS NUMBER	CHEMICAL NAME	PERCENT	TLV	PEL	
102782-80-9	Dimethyl, methylvinylsiloxane, hydroxy-term and dimethyl siloxane, hydroxy-term reaction with silica (silica polymer bound)	5 - 50	80 mg/M3 (TWA, silica)	) N/A	
556-67-2	Octamethylcyclotetrasiloxane	0.1 - 1	10 ppm (TWA)	N/A	
1344-28-1	ALUMINUM OXIDE	<60	10 MG/M3	15 MG/M3	
Section 4FIRST-AID MEASURES:					
IF IN EYES: No effects expected. If contact occurs and irritation is present, wash with plenty of water then get medical advice /attention. If eye irritation persists: get medical advice /attention. No health effects expected. Wash hands as a precaution. If irritation does occur wash with					
IF ON SKIN:	soap and water. Discontinue use of the	product. If skin	irritation or rash occurs, g	get medical	

irritation persists, get medical advice /attention. Call a poison center if you feel unwell.

advice / attention. If symptoms are experienced remove source of contamination or move victim to fresh air. If

IF INHALED:

IF SWALLOWED: Get medical advice/attention if irritation occurs. CALL POISON CENTER IF YOU FEEL UNWELL.

PHYSICIANS: Treat according to person's condition and specifics of exposure.

#### Section 5.-FIRE-FIGHTING MEASURES

Flash Point:	Not applicable
Auto-ignition Temperature:	Not applicable Not determined
Flammability Limits in Air:	In case of major fire and large quantities use dry chemical, foam or water spray to extinguish.
In case of fire: Fire Fighting Measures: Unusual Fire Hazards:	Use carbon dioxide, dry chemical, or water spray in case of small fire. Water can be used to cool. Protective clothing and self-contained breathing apparatus should be worn in fighting large
	fires. Use water spray to keep fire exposed containers cool. Determine evacuation needs and isolation of effected areas from smoke and heat. None are known
Section 6 ACCIDENTAL	

#### Section 6.-ACCIDENTAL RELEASE MEASURES

Observe all personal protective equipment recommendations in Section 5 and 8. Collect and contain for salvage or disposal. Local, state, and federal laws must be followed in this regard. Sections 13 and 15 may assist in providing guidance as to the nature of federal and state law that needs to be maintained and followed.

# Section 7. -HANDLING AND STORAGE

COMMENTS: Traces of benzene (carcinogen) may form if heated in air above 300 oF (140 oC). Provide ventilation to control fume exposure within inhalation guidelines when handling at elevated temperature. Review the OSHA benzene regulation for detailed information on safe handling requirements. Use at high temperatures may evolve or generate heptamethylcyclotetrasiloxane, 2,6-cis-diphenylhexamethylcyclotetrasiloxane, and other siloxane cyclics. Provide adequate ventilation to control within exposure guidelines. Personnel should wear organic vapor respirators until workplace exposure levels have been determined.



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## Section 8.-EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits have not been established for this product. Consistent with good occupational hygiene practices, personal protective equipment (PPE) should be used in conjunction with other control measures, including engineering control, ventilation and isolation. See section 3 for additional information.

CAS# 1	02782-80-9	silica polymer bo	ound		80 mg/M3 (TWA, silica)
CAS# 5	56-67-2	Octamethylcyclo	otetrasilo	xane	10 ppm (TWA)
	CTION 3 FOR ADDITION 3				
9.1	Physical form:	P	PASTE LI	KE - LITTLE ODOR	
9.2	Color:				
9.3	Odor:		ittle / nor	ie	
9.4	Odor threshold		Jnknown		
9.5	pH:			xpected; not measured	
9.6	Molecular Weight:			ver 100,000 g/mole	
9.7	Melting point / range (	C).	oes not i		
9.8	Initial boiling point / ra	nge ( C).	Does not l		
9.9	Decomposition Tempe	erature: N	lot deterr	mined	
9.10	Vapor pressure:	<	: 1		
9.11	Relative density (g/co	:): 2	.15		
9.12	Vapor density (air = 1	): N	lo vapor	expected	
9.13	Fat solubility (mg/kg, '	°C): N	I/A		
9.14	Water solubility (mg/kg	g, °C): N	I/A		
9.15	Partition coefficient (lo	g Pow): C	Cannot be	e determined	
9.16	Flammability:	Ν	I/A		
0.10	Flash point (°C):		100		
	Explosivity limits (% v/		I/A		
9.17	Auto-ignition temperat	(0)	600		
9.18	Explosively:	Ν	/lay form	an explosive dust if grour	nd and finely divided.
9.19	Kst (dust deflagration)	): >	• 0 and <	200 bar*m/s (not specific	ally tested; given as a guide only).
9.20	Oxidizing properties:	Ν	lone knov	wn	
9.21	Other physical-chemic	cal properties: N	lone		
9.22	Viscosity:		Paste		
Sectior	10STABILITYA	ND REACTIV		Normally stable	
	/: Stability: ıs Polymerization Conditi	ons: Conditions to		Will solidify when heated Will not occur Closed heating of the product of Oxidizing material can cause a	
Incompat	ible materials: is Decomposition Produc			High temperature thermal breat high heat condition may produce	kdown of this material in fire or very ce: carbon dioxide, carbon monoxide, silicon e, and nitrogen oxides. Proper ventilation must be
				used when heat aging this proc	

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### Section 11.-TOXICOLOGICAL INFORMATION

11.1 Available testing on dimethylsiloxanes Acute toxicity Oral: None known

Similar Product tested:

1

Wipe off and flush with water

[	Oral exposure	LD50>2000 mg/kg	Rat	Conclusion by analogy
	Dermal	LD50>2000 mg/kg	Rat	Conclusion by analogy
11.2	Acute toxicity Inhalation:	None known		

11.3Skin irritation / corrosion:None known

Based on similar product testing: None known

None irritating	Rabbit	Rat	Conclusion by analogy
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#### 11.4 Serious damage to eyes / eye irritation: None known

None irritatingRabbitRatConclusion by analogy	None irritating	Rabbit	Rat	Conclusion by analogy
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#### 11.5 Skin and respiratory sensitization: None known

Dermal	Not sensitizing	Guinea-pig; Buhler	Conclusion by analogy
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11.6	Specific target organ toxicity following single or repeated exposure:	None known
11.7	Toxicity following single exposure: Oral Inhalation	None known None known
11.8	Toxicity repeated exposure: Oral Inhalation	None known None known

Further data suggests: Inhalation of OMCTS/D4 has been shown in rodents repeatedly exposed by inhalation or ingestion to increase liver weight as compared to controls. No gross or histopathological liver effects were noted. The relevance of these effects in humans is not known. Formaldehyde if formed at 150 °C by heating this product and is a known carcinogen and skin / respiratory sensitizer. Good ventilation and industrial practices should eliminate this risk.

- 11.9 Toxicity repeated exposure:
- 11.10 Reproductive Toxicity:

Suspected of damaging fertility

Further data suggests: Inhalation of OMCTS/D4 from rats that decreased mean live litter sizes and prolonged labor (dy stocia) were observed at the 500 ppm and 700 ppm exposure levels. The relevance of these effects in humans cannot be determined and the data does not exist for this exposure. This would be considered a high exposure level and would unlikely to be observed in industry or application. OMCTS/D4 may be generated when this product is heated above 150 °C.



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None known

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# Section .12.-ECOLOGICAL INFORMATION

Environmental Fate	
Air:	This product is a high molecular weight silicone polymer and other solid materials. Unless ground to produce dust or particles, atmospheric contamination should not occur.
Water:	This product is a solid and has low solubility in water. It will sink in water.
Soil:	This material is unlikely to further transform in a solid waste or landfill.
Degradation:	This material is a high molecular weight solid. It is amenable to recycling. The product is not biodegradable. The product will be removed >80 % during the sewage treatment process.
Environmental Effects	
Toxicity to water organisms:	This material is a high molecular weight polymer. The risk should be low to aquatic organisms.
Toxicity to soil organisms:	This compound is solid and does not dissolve or extract to significant amounts in water. It is not likely to present a danger to terrestrial organisms.
Bioaccumulation:	This product is a solid which is not soluble in water and if ingested will not be absorbed. There is some experimental evidence that OMCTS/D4 (byproduct from heating silicone rubber) can accumulate in the environment in confined spaces and areas. This data is extremely limited and the exact effects in the environment are not known. The preponderance of the evidence would suggest that this bioaccumulation is irrelevant and only experimentally observed.
Water treatment plants:	This compound is a solid and is unlikely to affect bacteria in water treatment plants. Some experiments indicate that silicone is highly biologically compatible.

# Section 13.-DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)	No
When discarding this material, as received, is it	
hazardous waste as defined in this requirement:	

#### Section 14.-TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101):	Not Subject
Ocean Shipment (IMDG):	Not Subject
Air Shipment (IATA):	Not Subject



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### Section 15. - REGULATOR INFORMATION

The contents of this SDS comply with United Nations (GHS) or Globally Harmonized System of Classification and Labeling of Chemicals.

The chemical substances in the product are listed on the TSCA inventory of chemical substances.

California Proposition 65: This product may contain chemicals or produce chemicals when heated known to the state of

#### EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances (40 CFR 355):	None
Section 304 CERCLA Hazardous Substances (40 CFR (302):	None
Section 311/312 Hazard Class (40 CFR 370):	
Acute:	No
Chronic:	Yes, fertility effects
Fire:	No
Pressure:	No
Reactive:	No
Section 311 Toxic Chemicals (40 CFR 372):	None present in a regulated quantity nor intentionally added
Section .16OTHER INFORMATION	

Prepared by: ITW United Silicone, Inc.

The information is provided in good faith. These are not typical values and should not be taken as such. No warranty is expressed or implied. The safety information is believed to be generally applicable. The end user should review the information in this data sheet for any unknown or unrelated safety issues that may occur for nonstandard use of this product. All SDS's should be reviewed by experts in the field. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable.



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