

SAFETY DATA SHEET (SDS)

Section 1.-PRODUCT IDENTIFICATION:

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

TL80 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: Warning



Hazard statements(s):

H361. Suspected of damaging fertility or the unborn child.

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	a) 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-A	AID MEASURES:			
IF IN EYES: IF ON SKIN: IF INHALED:	No effects expected. If contact occurs an get medical advice /attention. If eye irritati No health effects expected. Wash hand soap and water. Discontinue use of the advice / attention. If symptoms are experienced remove so irritation persists, get medical advice /atte	on persists: get ls as a precaution product. If skin urce of contami	medical advice /attention on. If irritation does occu irritation or rash occurs, nation or move victim to	ur wash with get medical fresh air. If
IF SWALLOWED: C UNWELL.	Get medical advice/attention if irritation occurs	. CALL POISO	N CENTER IF YOU FE	EEL
PHYSICIANS: Section 5FIRE-FIG	Treat according to person's condition and <u>HTING MEASURES</u>	specifics of exp	osure.	
Flash Point:	Not applicable			
Auto-ignition Temperat	ure: Not applicable Not determined			
Flammability Limits in A		se dry chemical	, foam or water spray to e	extinguish.

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:	Use carbon dioxide, dry chemical, or
Fire Fighting Measures:	water spray in case of small fire. Water can be used to cool.
Unusual Fire Hazards:	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 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 bou	und		80 mg/M3 (TWA, silica)
CAS# 5	56-67-2	Octamethylcyclote	etrasilo	kane	10 ppm (TWA)
	CTION 3 FOR ADDITION 9PHYSICAL AN				
9.1	Physical form:	PA	STE LI	KE - LITTLE ODOR	
9.2	Color:				
9.3	Odor:		tle / non	e	
9.4	Odor threshold		known		
9.5	pH:			(pected; not measured	
9.6	Molecular Weight:			ver 100,000 g/mole	
9.7	Melting point / range ((C):	es not r		
9.8	Initial boiling point / ra	nge (°C).	es not b		
9.9	Decomposition Temp	erature.	ot detern	nined	
9.10	Vapor pressure:	< 1			
9.11	Relative density (g/co	c): 2.1	15		
9.12	Vapor density (air = 1): No	vapor e	expected	
9.13	Fat solubility (mg/kg,	°C): N/A	A		
9.14	Water solubility (mg/kg	g, °C): N/A	A		
9.15	Partition coefficient (Ic	g Pow): Ca	nnot be	determined	
9.16	Flammability:	N/A	A		
	Flash point (°C):	> 1	100		
	Explosivity limits (% v/	v: N/A	A		
9.17	Auto-ignition temperat	ure (°C): > 6	600		
9.18	Explosively:	Ma	ay form a	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:	No	one knov	wn	
9.21	Other physical-chemic	cal properties: No	one		
9.22	Viscosity:	Pa	ste		
Sectior	10STABILITYA	ND REACTIVIT		Normally stable	
Reactivity: Chemical Stability: Hazardous Polymerization Conditions: Conditions to avoid:			Will solidify when heated Will not occur Closed heating of the product o Oxidizing material can cause a		
	ible materials: is Decomposition Produc	ots:		high heat condition may produc	kdown of this material in fire or very ce: carbon dioxide, carbon monoxide, silicon e, and nitrogen oxides. Proper ventilation must be duct or vulcanized product.

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Section 11.-TOXICOLOGICAL INFORMATION

11.1 Available testing on dimethylsiloxanes Acute toxicity Oral: None known

Similar Product tested:

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		
11.3	Skin irritation / corrosion	: None known		

Based on similar product testing: None known

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

None irritatingRabbitRatConclusion by analogy			
	Rabbit	Rat	Conclusion by analogy

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: None known
- 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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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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