

SAFETY DATA SHEET (SDS)

Section 1.-PRODUCT IDENTIFICATION: US70 Ultrasil

Revision Date: 11/09/2019

ITW United Silicone 4471 Walden Avenue Lancaster, NY 14086

Emergency Response Number 1 (800) 535-5053

TELEPHONE: 716-681-8222

1.1 IUPAC Name: Dimethyl siloxane, dimethylvinyl-terminated

1.2 Synonyms: Silicone rubber, silicone elastomer

1.3 Molecular Formula: Undefined1.4 Structural Formula: Undefined

1.5 Purity (w/w): Not determined

1.6 Significant impurities or additives: Silicone Dioxide

1.7 Known Uses: Industrial manufacture of silicone parts

Section 2.-HAZARD IDENTIFICATION:

GHS Classification

Health: Category 1A Carcinogen (inhalation)
Category 1 Specific Target Organ (lungs)

Systemic Toxicity (Repeated Exposure)

Category 2 Reproductive toxicity

GHS Label elements, including precautionary statements

Signal word: Danger

Hazard statements(s):

H303. May be harmful if swallowed Pictogram:

H313. May be harmful in contact with skin.

H333. May be harmful if inhaled.

H350. May cause lung cancer.

H361. Suspected of damaging fertility or the unborn child.

H372. Causes damage to lungs and /or kidneys through prolonged or repeated exposure by inhalation.

Precautionary statements(s):

P201. Obtain special instructions before use.

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

P260. not breathe dust.

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

P314. Get medical advice / attention if you feel unwell.

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 1, Flammability 1, Instability / Reactivity 0

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

*This product contains crystalline quartz, which may present a health hazard if airborne. Exposure to respirable crystalline quartz may cause lung injury (silicosis). Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death.

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 (mixture)

CAS NUMBER	CHEMICAL NAME	PERCENT	TLV	PEL
102782-80-9	Dimethyl, methylvinylsiloxane, hydroxy-term and dimethyl siloxane, hydroxy-term reaction with silications.	5 - 50 a.	80 mg/M3 (TWA)	N/A
	polymer silica bound	-,		
556-67-2	Octamethylcyclotetrasiloxane	0 - 1	10 ppm (TWA)	N/A

Section 4.-FIRST-AID MEASURES:

14808-60-7

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.

IF ON SKIN: No health effects expected. Wash hands as a precaution. If irritation does occur wash with soap

and water; discontinue use of the product. If skin irritation or rash occurs, get medical advice /

59

0.025 mg/M3

10 mg/M3

attention.

SILICON DIOXIDE

IF INHALED: If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation

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

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:

Auto-ignition Temperature:

Flammability Limits in Air:

Not applicable

Not applicable

Not determined

In case of fire:

In case of major fire and large quantities use dry chemical, foam or water spray to extinguish.

Use carbon dioxide, dry chemical, or water spray in case of small fire. Water can be used to

Fire Fighting Measures:

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.

Unusual Fire Hazards: 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

Use with adequate ventilation. Store away from oxidizing materials. This material can pose an explosion hazard as a dust. Follow NFPA 654 (dusts) and 484 for metal dust for managing dust hazards (P270). Do not eat, drink, or smoke when using this product. Eating and drinking in an area that this product is used should be prohibited.



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Section 8.-EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits have not been fully 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 restrictions.

Polymer bound, silica CAS# 102782-80-9 TWA (dust) 80 mg/M3 OSHA Z-3

Octamethylcyclotetrasiloxane CAS# 556-67-2 TWA 10 ppm N/A

SEE SECTION 3 FOR ADDITION EXPOSURE WARNINGS

Section 9.-PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical form: PASTE LIKE - LITTLE ODOR

9.2Color:LIGHT RED9.3Odor:Little / none9.4Odor thresholdUnknown

9.5 pH: 6.5 - 10 expected; not measured majority over 100,000 g/mole

9.7 Melting point / range (°C): Initial Does not melt boiling point / range (°C): Does not boil Decomposition Temperature: Not determined

9.9 Vapor pressure: < 1
9.10 Relative density (g/cc): Vapor 1.77

9.11 density (air = 1): No vapor expected

9.12 Fat solubility (mg/kg, °C): Water N/A 9.13 solubility (mg/kg, °C): Partition N/A

9.14 coefficient (log Pow): Cannot be determined

9.15 Flammability: N/A

9.16 Flash point (°C):

Explosivity limits (% v/v: Autoignition temperature (°C): > 100 N/A > 600

9.17 > 6 Explosively:

9.18 May form an explosive dust if ground and finely divided.

9.19 Kst (dust deflagration): > 0 and < 200 bar*m/s (not specifically tested; given as a guide only).

9.20 Oxidizing properties:

9.21 Other physical-chemical properties: None

9.22 Viscosity: Paste

Section 10. - STABILITY AND REACTIVITY

Reactivity: Normally stable

Chemical Stability: Will solidify when heated

Hazardous Polymerization Will not occur

Conditions: Conditions to avoid: Closed heating of the product can produce toxic gas

Incompatible materials: Oxidizing material can cause a reaction

Hazardous Decomposition Products: High temperature thermal breakdown of this material in fire or very high heat condition may produce: carbon dioxide, carbon monoxide, silicon dioxide,

formaldehyde, benzene, and nitrogen oxides. Proper ventilation must be used when

heat aging this product or vulcanized product.

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Section 11.-TOXICOLOGICALINFORMATION

11.1 Available testing on dimethyl siloxanes

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

		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

11.6 Specific target organ toxicity

following single or repeated

exposure: None known

11.7 Toxicity following single exposure:

Oral None known

Inhalation None known, for dimethyl siloxanes

11.8 Toxicity repeated exposure:

Oral None known

Inhalation None known, for dimethyl siloxanes

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. Some evidence of adverse effects on sexual function and fertility, based on animal experiments. Some evidence of long term harmful effects to aquatic life. Formaldehyde, if formed at 150 °C by heating this product, 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 (dystocia) 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.

11.11 STOT - single exposure: N/A

11.12 STOT - repeated exposure: N/A

11.13 Aspiration Hazard: None known as sold

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11.14 When g round or turned to fine powder this product may have the toxic effects of ground quartz (ground silica). Although these effects should be lowered by being polymer bound, there is insufficient data presented in the literature for obvious conclusion to safe exposure levels. Alternatively these hazards may increase or remain the same as ground quartz.

Inhalation of respirable silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring.

Silicosis: The major concern is silicosis, caused by the inhalation and retention of respirable crystalline silica dust. Silicosis can exist in sever forms, chronic (or ordinary), accelerated, or acute.

Cancer: The International Agency for Research on Cancer (IARC) has stated there is "sufficient evidence in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristabalite from occupational sources"

Autoimmune Diseases: Exposure to crystalline silica may increase the incidence of several autoimmune disorders.

Kidney Disease: There is a link between exposure to quartz with incidence of kidney diseases including end stage renal disease

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. Some

evidence of harm to aquatic life.

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: There is some evidence of harm to aquatic life.

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 ponderance 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)

When discarding this material, as received, is it

hazardous waste as defined in this requirement:

No



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Section 14.-TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101):

Ocean Shipment (IMDG):

Air Shipment (IATA):

Not Subject

Not Subject

Ground silica is not a hazardous material for purposes of transportation (49 CFR 172.101).

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 California to cause cancer, birth defects, or other reproductive harm.

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, long term inhalation hazard

Fire: No Pressure: No Reactive: No

Section 311 Toxic Chemicals (40 CFR 372): None present in a regulated quantity nor intentionally added

Section 16.-OTHER INFORMATION

See OSHA Z-3 AND OSHA Z-3 / TWA, MINERAL DUSTS

Prepared by 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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