



A CHT GROUP
COMPANY
CHT

Safety Data Sheet

Issue date 07-Jul-2015

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Version 2

1. Identification

Product Identifier

Product name QM Cat Purple

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Industrial silicone elastomer.
Application FOR INDUSTRIAL USE ONLY

Details of the Supplier of the Safety Data Sheet

Supplier	Manufacturer Address
Quantum Silicones	Quantum Silicones
7820 Whitepine Rd	8021 Reycan Rd
Richmond, VA 23237	Richmond, VA 23237

Emergency Telephone Number

Company Phone Number 800-852-3147 (8AM - 5PM EST)
Emergency telephone Chemtrec 1-800-424-9300

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive Toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
FLAMMABLE LIQUIDS	Category 4

Label Elements

EMERGENCY OVERVIEW

WARNING

hazard statements

Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
combustible liquid



Appearance Liquid Viscous liquid

Physical State Liquid

Odor Slight

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not Applicable

OTHER INFORMATION

May be harmful in contact with skin.

3. Composition/information on Ingredients

Substance

Not Applicable

Mixture

Chemical name	CAS No	weight-%	Trade secret
Tetraethylsilicate	78-10-4	5 - 10	*
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	1 - 5	*

4. First aid measures

Description of first aid measures**General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes. If symptoms persist, call a physician.

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact

Wash skin with soap and water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

INHALATION

Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

INGESTION

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.

Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Use personal protective equipment as required.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Keep victim warm and quiet. Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Dry chemical, CO₂, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without risk. Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.

Unsuitable Extinguishing Media ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Substance may be transported hot. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

OTHER INFORMATION Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

7. Handling and Storage

Precautions for Safe Handling

Advice on safe handling Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

Incompatible materials None known based on information supplied.

8. Exposure Controls/Personal Protection

Control Parameters

Ingredients with workplace exposure parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tetraethylsilicate 78-10-4	TWA: 10 ppm	TWA: 100 ppm TWA: 850 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 85 mg/m ³	IDLH: 700 ppm TWA: 10 ppm TWA: 85 mg/m ³
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	TWA: 0.1 mg/m ³ Sn (vacated) TWA: 0.1 mg/m ³ Sn (vacated) S*	IDLH: 25 mg/m ³ Sn TWA: 0.1 mg/m ³ except Cyhexatin Sn

NIOSH IDLH *Immediately Dangerous to Life or Health*

OTHER INFORMATION Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate Engineering Controls

Engineering controls Showers
Eyewash stations

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.
- Skin and Body Protection** Wear protective gloves and protective clothing.
- Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation, especially in confined areas.

General hygiene considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Slight
Appearance	Liquid Viscous liquid	Odor threshold	No information available
Color	Purple		
Property	VALUES	Remarks • Method	
pH	No information available		

Melting point / Freezing point	No information available	
Boiling point / Boiling range	No information available	
Flash point	> 61 °C / > 142 °F	CC (closed cup)
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability limit in air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	300 mPa s	
Explosive properties	Not an explosive	
Oxidizing properties	This product is not an oxidizing agent	

OTHER INFORMATION

Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Density	1.02
Bulk density	No information available

10. Stability and Reactivity**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. Toxicological Information**Information on Likely Routes of Exposure**

Product information	No data available.
INHALATION	No data available.
Eye Contact	No data available.
Skin Contact	No data available.

INGESTION

No data available.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Tetraethylsilicate 78-10-4	= 6270 mg/kg (Rat)	= 6300 µL/kg (Rabbit)	-

Information on Toxicological Effects**Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

sensitization No information available.
Germ Cell Mutagenicity No information available.
carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

*IARC (International Agency for Research on Cancer)
 Not classifiable as a human carcinogen*

Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Chronic Toxicity May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
Target organ effects Blood, Central Nervous System, EYES, Kidney, Liver, Respiratory System, skin, Urinary tract.
Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5,602.00 mg/kg
ATEmix (dermal) 2,477.00 mg/kg
ATEmix (inhalation-dust/mist) 16.19 mg/l

12. Ecological Information

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity

Harmful to aquatic life

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-ethylhexanoic acid 149-57-5	41: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 61: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	70: 96 h <i>Pimephales promelas</i> mg/L LC50	85.4: 48 h <i>Daphnia magna</i> mg/L EC50
n-propanol 71-23-8	-	4480: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	3642: 48 h <i>Daphnia magna</i> mg/L EC50 3339 - 3977: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Ethanol 64-17-5	-	12.0 - 16.0: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 static 13400 - 15100: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 100: 96 h <i>Pimephales promelas</i> mg/L LC50 static	9268 - 14221: 48 h <i>Daphnia magna</i> mg/L LC50 2: 48 h <i>Daphnia magna</i> mg/L EC50 Static 10800: 24 h <i>Daphnia magna</i> mg/L EC50
Methanol 67-56-1	-	19500 - 20700: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 100: 96 h <i>Pimephales promelas</i> mg/L LC50 static 13500 - 17600: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 28200: 96 h <i>Pimephales promelas</i> mg/L LC50	-

		flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static	
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Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects

No information available

Ozone depletion potential (ODP) No information available

13. Disposal Considerations

Waste Treatment Methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not reuse container.

14. Transport Information

DOT

UN/ID no	NA1993
Proper Shipping Name	Combustible liquid, n.o.s.
Hazard class	Combustible liquid
Packing group	III
Special Provisions	IB3, T1, T4, TP1
Marine Pollutant	This product contains a chemical which is listed as a severe marine pollutant according to DOT.
Description	NA1993, Combustible liquid, n.o.s. (Tetraethylsilicate, Methanol), Combustible liquid, III
Emergency Response Guide Number	128

IATA

NOT REGULATED

IMDG

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.*
Hazard class	9
Packing group	III
EmS-No	F-A, S-F
Special Provisions	274, 335

Special Precautions

If this material is packaged in containers >119 gallons, it will be regulated as NA1993, combustible liquid, N.O.S., PGIII

15. Regulatory Information

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
TCSI	Complies

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Methanol - 67-56-1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	YES
Chronic health hazard	NO
Fire Hazard	YES
Sudden Release of Pressure Hazard	NO
Reactive Hazard	NO

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product contains Proposition 65 chemicals

Chemical name	California Proposition 65
Ethanol - 64-17-5	Carcinogen Developmental
Methanol - 67-56-1	Developmental

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Tetra-n-propoxy silane 682-01-9	X	X	X
Tetraethylsilicate 78-10-4	X	X	X
Silica 112945-52-5	X	X	X

Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7	X	X	X
Polydimethylsiloxane 63148-62-9	X	X	X
Tetramethyl orthosilicate 681-84-5	X	X	X
Tetrathyl Silicate 78-10-4	X	X	X
2-ethylhexanoic acid 149-57-5	X	-	-
n-propanol 71-23-8	X	X	X
Ethanol 64-17-5	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not Applicable

16. Other information, including date of preparation of the last revision

NFPA	Health Hazards 2	Flammability 2	Instability 0	-
HMIS	Health Hazards 2	Flammability 2	Physical Hazards 0	-

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Revision note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet