



Safety Data Sheet

Issue date 07-Jul-2015

Revision date 20-May-2015

Version 1

1. Identification

Product Identifier

Product name QM Cat Blue

Other means of identification

UN/ID no NA1993

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 7820 Whitepine Rd Richmond, VA 23237 | Quantum Silicones 8021 Reycan Rd 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)

Label Elements

EMERGENCY OVERVIEW

WARNING

hazard statements

combustible liquid

Appearance Liquid Viscous liquid

Physical State Liquid

Odor Slight

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Wear protective gloves/protective clothing/eye protection/face protection

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

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 |
|--|------------|----------|--------------|
| Tetra-n-propoxy silane | 682-01-9 | 7 - 13 | * |
| Tetraethylsilicate | 78-10-4 | 5 - 10 | * |
| Dimethylbis[(1-oxoneodecyl)oxy]stannane | 68928-76-7 | 1 - 5 | * |
| n-propanol | 71-23-8 | <0.1 | * |
| Ethanol | 64-17-5 | <0.1 | * |

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-oxonodecyl)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 |
| n-propanol 71-23-8 | TWA: 100 ppm | TWA: 200 ppm TWA: 500 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m ³ | IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 625 mg/m ³ |
| Ethanol 64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³ | IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³ |

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) | - |
| n-propanol 71-23-8 | = 1870 mg/kg (Rat) | = 4049 mg/kg (Rabbit) | > 13548 ppm (Rat) 4 h |
| Ethanol 64-17-5 | = 7060 mg/kg (Rat) | - | = 124.7 mg/L (Rat) 4 h |

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).

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------|-------|---------|-------|------|
| Ethanol 64-17-5 | A3 | Group 1 | Known | X |

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) 11,305.00 mg/kg

ATEmix (dermal) 2,371.00 mg/kg

ATEmix (inhalation-dust/mist) 15.50 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

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

| Chemical name | Partition coefficient |
|-----------------------|-----------------------|
| n-propanol 71-23-8 | 0.34 |
| Ethanol 64-17-5 | -0.32 |

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.

US EPA Waste Number U154

This product contains one or more substances that are listed with the State of California as a hazardous waste.

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 material is not regulated in containers < 119 gallons
 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
Description UN3082, Environmentally hazardous substance, liquid, n.o.s.*, 9, III

15. Regulatory Information

International Inventories

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

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - 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

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

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 the following Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|-------------------|-----------------------------|
| Ethanol - 64-17-5 | Carcinogen Developmental |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Polydimethylsiloxane 63148-62-9 | X | X | X |
| 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, vinyl dimethylsiloxy terminated 68083-19-2 | 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

| | | | | |
|-------------|------------------|----------------|--------------------|---|
| <u>NFPA</u> | Health Hazards 2 | Flammability 2 | Instability 1 | - |
| <u>HMIS</u> | Health Hazards 2 | Flammability 2 | Physical Hazards 1 | - |

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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