



HARWICK
S T A N D A R D

Safety Data Sheet
STANGARD® TMQ POWDER
STANGARD® TMQ PASTILLE
STANGARD® TMQ-E MINI PASTILLE

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SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: STANGARD® TMQ POWDER/PASTILLE

STANGARD TMQ-E MINI PASTILLE

Other means of identification

Chemical name: 2,2,4-Trimethyl-1,2-dihydroquinoline

Synonyms: 1,2-Dihydro-2,2,4-trimethylquinoline, oligomers

Recommended use and restrictions on use: Antioxidant

Supplier information:

Manufactured for and supplied by:

Supplier: Harwick Standard Distribution Corporation

Supplier Address: 60 S. Seiberling Street, Akron, OH 44305

Contact: Health, Safety & Environment

Telephone: 330-798-9300

Website: www.harwickstandard.com

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture:

Material is not considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS Label Elements:

Hazard symbol: None

Signal word: None

Hazard Statements:

No known significant effect or critical hazards.

Precautionary Statements:

Prevention: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

Hazard(s) not otherwise classified (HNOC): None known



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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture:

<u>Components</u>	<u>Chemical Identity</u>	<u>CAS Number</u>	<u>Weight%</u>
	2,2,4-Trimethyl-1,2-dihydroquinoline	26780-96-1	100%

Any concentrations shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove affected person to fresh air. If not breathing provide artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Rinse mouth with water. Induce vomiting only at the instruction of a physician. Never give anything by mouth to an unconscious person. Seek medical attention.

Skin contact: Wash affected areas of skin with soap and plenty of running water. Seek medical attention if irritation develops or persists. Do not reuse contaminated clothing with laundering.

Eye contact: Irrigate eye with water for 15 minutes. Remove contact lenses to ensure thorough flushing. Contact a physician as soon as possible.

Most important symptoms/effects, acute and delayed:

Potential acute health effects:

Eye contact: Eye contact with dust may cause irritation.

Inhalation: Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

Skin contact: Non-irritating

Ingestion: Ingestion of large amounts is unlikely.

Over-exposure signs/symptoms/Potential chronic health effects: No data available.

Notes to physician: Treat symptomatically. No specific treatment.

Indication of immediate medical attention and special treatment needed: No data available.



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SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water spray, carbon dioxide (CO₂), dry chemical, foam or water fog. Use water spray to cool containers exposed to fire.

Unsuitable extinguishing method: Waterjet

Specific hazards arising from chemical: During a fire, irritating and/or toxic gases may be generated by thermal decomposition or combustion.

Combustion products: Carbon oxides. Nitrous gases.

Special firefighting equipment and precautions for firefighters: Evacuate all non-emergency personnel to a safe area. Firefighters should wear a self-contained breathing apparatus (SCBA) operating in a positive pressure mode and full firefighting protective clothing for combating fires.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Extinguish all ignition sources. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. Unnecessary personnel should be kept clear of the spill area. Clean-up personnel should wear appropriate personal protective equipment (See Section VIII).

Methods and materials for containment and cleaning up:

Take up any spilled product by mechanical means (avoid dust formation) and place into sealed containers for proper disposal. Dispose of waste materials including empty product bags or drums in accordance with local, state and federal regulations. See Section XIII for disposal considerations.

Environmental precautions:

Prevent further leakage or spilling if safe to do so. Do not allow product enter sewage or ground water. Discharge into the environment must be avoided.

SECTION 7 - HANDLING AND STORAGE



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Precautions for safe handling: All handling equipment should be properly grounded to prevent build-up of electrostatic charges. Storage area should be equipped with a sprinkler system. Maintain good housekeeping to prevent dust accumulation and avoid formation of aerosols. Avoid breathing dust. Observe good industrial hygiene practice for chemical handling. See Section VIII for personal protection equipment.

Conditions for safe storage, including any incompatibilities: Avoid generating or breathing dust. Prevent dust accumulation. Avoid ignition sources such as sparks and flame. Avoid contact with eyes, skin and clothing. Close containers of unused product. Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Do not reuse this container. Work clothes should be washed separately at the end of the workday. Disposable clothing should be discarded with material. Store closed containers in a cool, dry, well-ventilated area. Store away from strong acids. Store away from strong oxidizing agents. Avoid high temperatures. Avoid exposure to direct sunlight. Do not double stack.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: Not established.

Appropriate engineering controls: Local exhaust recommended when generating excessive levels of airborne particles. Discharge from the ventilation system should comply with applicable air pollution control regulations. Use sufficient ventilation to keep employee exposure below recommended limits.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses with side shields.

Skin/Hand protection: Wear impervious gloves to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good laboratory practices. Wash hands with soap and water.

Body protection: To protect the body, wear impervious clothing such as coveralls to minimize skin contact. Select protective equipment according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: If dust is generated, wear NIOSH-approved dust respirator or dust mask. If vapors/dust are generated above exposure limits and the respirator is the sole means of protection, use NIOSH approved full-face organic cartridge filter respirator, air supplied respirator or SCBA. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134)

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES



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Appearance:	Light brown powder/pastille
Odor:	Faint, aromatic
pH:	Approximately 7
Boiling Point/Range:	Not determined
Melting Point/Freezing Point:	Melting point: 83°C minimum
Flash Point (°C):	243°C (Cleveland Open Cup)
Flammable/Explosion Limits:	LEL: < 10mg/l (dust)
Relative Density (Specific Gravity):	1.1 @ 20°C
Vapor Pressure:	Negligible
Vapor Density:	Not determined
Solubility:	Water solubility: <0.0025-0.0032 mg/L @ 25°C
Viscosity:	Not applicable
Explosive Properties:	Dust with explosion hazard
Aut ignition Temperature:	Not determined

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No data available.

Chemical stability: Material is stable under recommended storage and handling conditions.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid ignition sources. Keep away from heat, flame, sparks and static discharge.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide and carbon dioxide. Nitrous gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Name: 2,2,4-Trimethyl-1,2-dihydroquinoline Polymerized

Acute Toxicity: **Oral:** LD50 (Rat): >2,225 mg/kg
 Dermal: LD50 (Rabbit): >5,010 mg/kg
 Inhalation: No data available

Skin Irritation/Corrosion: Non-irritating



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Eye Damage/Irritation: Slightly irritating to eyes, but not sufficient for classification.

Respiratory or Skin Sensitization: Patch testing (Human experience): May cause sensitization in susceptible individuals.

Reproductive Toxicity: No data available

Germ cell Mutagenicity: Not mutagenic (invitro)

Carcinogenicity: **IARC:** Not listed as carcinogenic to humans.

NTP: Not listed as carcinogenic to humans.

ACGIS TLV: Not listed as carcinogenic to humans.

SECTION 12 - ECOLOGICAL INFORMATION

Name: 2,2,4-Trimethyl-1,2-dihydroquinoline Polymerized

Ecotoxicity:

- Fish:** 96h-LC50 (Lepomis macrochirus): 54 mg/l
- 96h-LC50 (Oncorhynchus mykiss): 50 mg/l
- 96h-HC50 (Pimephales promelas): 64 mg/l
- Daphnia: 48h-EC50 (Daphnia magna): 5.8 mg/l
- Algae: 96h-EC50 (Cell count):. 1000 mg/l

Persistence and degradability: CO2 evolution: 8%. Not readily biodegradable.

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues and must be treated as waste. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



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SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT: Not regulated.

IMO: Not regulated

IATA: Not regulated.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: This product is listed on the Toxic Substances Control Act Inventory.

Title III SARA Status

SARA Section 302-Extremely Hazardous Substance Not regulated

SARA Section 311 & 312-Hazardous Categories None known

SARA Section 313-Toxic Chemicals Not regulated

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 - OTHER INFORMATION

Issue date: 05-11-2015

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Revision Information: GHS Format

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