1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 151018

Product name: DUROQUINONE

Synonyms: 2,3,5,6-Tetramethyl-2,5-Cyclohexadiene-1,4-dione; Tetramethyl-1,4- benzoquinone

Supplier: MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH Exposure Limits</th>
<th>OSHA Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUROQUINONE</td>
<td>527-17-3</td>
<td>90 - 100%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin
Inhalation: May cause irritation of respiratory tract
Ingestion: May be harmful if swallowed.
Skin contact: May cause allergic skin reaction
Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation: Move to fresh air. Call a physician immediately.
Skin contact: Rinse immediately with plenty of water and seek medical advice
Ingestion: Do not induce vomiting without medical advice.
Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Protection of first-aiders: No information available
Medical conditions aggravated by exposure: None known
5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam
Specific hazards: Burning produces irritant fumes.
Unusual hazards: None known
Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific methods:
Flash point: Not determined
Autoignition temperature: Not determined

NFPA rating:
- NFPA Health: 0
- NFPA Flammability: 0
- NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.
Environmental precautions: Prevent product from entering drains.
Methods for cleaning up: Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:
ROOM TEMPERATURE

Handling: Use only in area provided with appropriate exhaust ventilation.

Safe handling advice: Wear personal protective equipment.
Incompatible products: Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.
PERSONAL PROTECTIVE EQUIPMENT
Respiratory protection: Breathing apparatus only if aerosol or dust is formed.
Hand protection: Pvc or other plastic material gloves
Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Eye protection: Safety glasses with side-shields
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Formula: C10H12O2
Molecular weight: 164.2
Melting point/range: 110-112°C
Boiling point/range: No Data available at this time.
Density: No data available
Vapor pressure: No data available
Evaporation rate: No data available

Catalog Number: 151018
Product name: DUROQUINONE
10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Polymerization: None under normal processing.
Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid: Strong oxidising agents
Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information
Acute toxicity
Components RTECS Number: Selected LD50s and LC50s
DUROQUINONE GU5410000 Not Determined

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Primary irritation: No data is available on the product itself.
Carcinogenic effects: No data is available on the product itself.
Mutagenic effects: No data is available on the product itself.
Reproductive toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available
Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.


Components Germany VCI (WGK) World Health Organization (WHO) - Drinking Water Ecotoxicity - Fish Species Data DUROQUINONE Not Listed Not Listed Not Listed

Components Ecotoxicity - Freshwater Algae Data Ecotoxicity - Microtox Data Ecotoxicity - Water Flea Data DUROQUINONE Not Listed Not Listed Not Listed

Components EPA - ATSDR Priority List EPA - HPV Challenge Program Chemical List California - Priority Toxic Pollutants DUROQUINONE Not Listed Not Listed Not Listed
Components
DUROQUINONE

California - Priority Toxic Pollutants
Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging:
Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:
Proper shipping name: Not Regulated

Components
DUROQUINONE

U.S. DOT - Appendix A Table 1 - Reportable Quantities
Not Listed

TDG (Canada):
WHMIS hazard class: Non-controlled

IMDG/IMO

IMDG - Hazard Classifications
Not Applicable

Components
DUROQUINONE

U.S. DOT - Appendix B - Marine Pollutants
Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants
Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components
DUROQUINONE

Inventory - United States TSCA - Sect. 8(b) Not Listed

Canada DSL Inventory List - Not Listed

EU EINECS List - 208-409-8; C10H12O2

Philippines PICCS: Present

U.S. regulations:
Components

DUROQUINONE

California Proposition 65: Not Listed
Massachusetts Right to Know List: Not Listed
New Jersey Right to Know List: Not Listed
Pennsylvania Right to Know List: Not Listed

Components

DUROQUINONE

Florida substance List: Not Listed
Rhode Island Right to Know List: Not Listed
Illinois - Toxic Air Contaminants: Not Listed
Connecticut - Hazardous Air Pollutants: Not Listed

Components

DUROQUINONE

SARA 313 Emission reporting/Toxic Release of Chemicals: Not Listed
CERCLA/SARA - Section 302 Extremely Haz: Not Listed
NTP: None
IARC: None

SARA 313 Notification:
The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:
The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet