

# **Material Safety Data Sheet**

Catalog Number: 229893 Revision date: 07-Mar-2012

## IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 229893

Product Name: 2,3,5-TRIPHENYL-2H-TETRAZOLIUM CHLORIDE

Tetrazolium Red Synonyms:

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

**Chemical Name** 2,3,5-TRIPHENYL-2H- **CAS Number** 

Weight %

**ACGIH Exposure Limits:** None

**OSHA Exposure Limits:** 

. None

TETRAZOLIUM CHLORIDE

# 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

Eve 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).

Skin Contact For minor skin contact, avoid spreading material on unaffected skin.

Eye Contact In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Rinse mouth Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

**Inhalation** Call a physician or Poison Control Center immediately.

Notes to Physician No information available

Medical conditions aggravated by exposure: None known

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## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

Specific hazards:

**Unusual hazards:** 

Specific methods:

**Protective Equipment and Precautions for Firefighters** 

Flash point: **Autoignition temperature:** 

NFPA rating:

NFPA Health: 2 NFPA Flammability: 0 NFPA Reactivity: 0 Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Burning produces irritant fumes.

None known

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

and full protective gear.

Water mist may be used to cool closed containers.

Not determined Not determined

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** 

**Environmental Precautions** 

Ensure adequate ventilation. Local authorities should be advised if significant spillages

cannot be contained.

Methods for Cleaning Up Cover powder spill with plastic sheet or tarp to minimize

spreading.

#### 7. HANDLING AND STORAGE

#### **Technical Measures/Precautions**

+4°C

**DESICCATE** 

PROTECT FROM LIGHT

Handling No information available.

Safe handling advice: Wear personal protective equipment.

Incompatible products: Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures Ensure adequate ventilation.

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

Skin and Body Protection Pvc or other plastic material gloves

Other Protective Equipment Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Hygiene Measures Contaminated work clothing should not be allowed out of the workplace. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder Formula: C19H15N4•CI Molecular weight: 334.81 243-250°C Melting point/range:

No data available at this time. Boiling point/range:

Density: No data available No data available Vapor pressure:

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Evaporation rate:**Vapor density:
No data available
No data available

Solubility (in water): Soluble

Flash point: Not determined Autoignition temperature: Not determined

#### 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

**Polymerization:**None under normal processing.

Hazardous decomposition products: Chloride/Hydrochloric acid, Nitrogen oxides

(NOx)/ammonia/CN-

Materials to avoid: Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

#### 11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

Chemical Name RTECS Number: Selected LD50s and LC50s

2,3,5-TRIPHENYL-2H- XF8100000 Not Determined TETRAZOLIUM CHLORIDE

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:

Carcinogenic effects:

Mutagenic effects:

No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data available

Bioaccumulation:

Ecotoxicity effects:

No data available

No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Chemical Name

U.S. DOT - Appendix B - U.S. DOT - Appendix B - United Kingdom - The Red

2,3,5-TRIPHENYL-2HTETRAZOLIUM CHLORIDE

Maine Politicant
Not Listed

Marine PollutantSevere Marine PollutantsList:Not ListedNot ListedNot Listed

Chemical Name Germany VCI (WGK) World Health Organization Ecotoxicity - Fish Species

(WHO) - Drinking Water Data
2,3,5-TRIPHENYL-2H- Not Listed Not Listed Not Listed

2,3,5-TRIPHENYL-2H- Not Listed Not Listed Not Listed TETRAZOLIUM CHLORIDE

Chemical Name Ecotoxicity - Freshwater Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Algae Data

2,3,5-TRIPHENYL-2H
Not Listed

Not Listed

Not Listed

Not Listed

z,s,s-triphenyl-2h- Not Listed Not Listed Not Listed Not Listed Not Listed

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Chemical Name EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic

2,3,5-TRIPHENYL-2H- Not Listed Not Listed Not Listed Not Listed Not Listed

Chemical Name California - Priority Toxic Pollutants California - Priority Toxic Pollutants

2,3,5-TRIPHENYL-2H- Not Listed Not Listed TETRAZOLIUM CHLORIDE

## 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

DOT:

Proper shipping name: Not Regulated

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

TDG (Canada):

WHMIS hazard class: D2b toxic materials

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

U.S. DOT - Appendix B - Marine Pollutant

Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants

Not Listed

IMO-labels:

#### 15. REGULATORY INFORMATION

#### **International Inventories**

2,3,5-TRIPHENYL-2H-TETRAZOLIUM CHLORIDE

Listed **TSCA Canada DSL Inventory List** Listed **AICS** Listed **IECSC** Listed Listed **EU EINECS List** Japan ENCS Listed Korea KECL Listed Listed Philippines PICCS

U.S. regulations:

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#### 15. REGULATORY INFORMATION

**Chemical Name** 

California Proposition 65: Massachusetts Right to **Know List:** 

New Jersev Right to Know List:

Pennsylvania Right to Know

2,3,5-TRIPHENYL-2H-**TETRAZOLIUM CHLORIDE** 

Not Listed

Not Listed

List: Not Listed Not Listed

**Chemical Name** 

Florida Substance List:

Rhode Island Right to

Illinois Toxic Air Contaminants

Connecticut Hazardous Air

2,3,5-TRIPHENYL-2H-**TETRAZOLIUM CHLORIDE** 

Not Listed

**Know List:** Not Listed

**Pollutants** Not Listed

Not Listed

**Chemical Name** 

SARA 313 Emission Reporting/Toxic Release

CERCLA/SARA Section NTP: IARC:

None

of Chemicals: Not Listed 2,3,5-TRIPHENYL-2H-

**TETRAZOLIUM CHLORIDE** 

302 Extremely Haz:

Not Listed

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 Ammendments and Reauthorization Act of

None

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** 

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