

SAFETY DATA SHEET

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) (OSHA HCS)

SECTION 1. IDENTIFICATION

Product name : 2,3,5-Triphenyltetrazolium Chloride

Product code : T0520

Manufacturer or supplier's details

Company name of supplier : TCI America

Address : 9211 N. Harborgate Street Portland, OR 97203 U.S.A.

Telephone : +1-800-4238616/+1-503-2831681
Telefax : +1-888-5201075/+1-503-2831987
E-mail address : sales-US@TCIchemicals.com

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-2867624

Transportation Emergencies: Chemtrec 24-Hour +1-800-4249300 (U.S.A.)/+1-703-5273887 (International)

Recommended use of the chemical and restrictions on use

Recommended use : Use as laboratory reagent

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation : Category 2
Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements : Prevention:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS RN	Concentration (% w/w)
2,3,5-Triphenyltetrazolium Chloride	298-96-4	>= 90 - <= 100

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled Remove person to fresh air and keep comfortable for breathing.Get

medical advice/ attention if you feel unwell.

Take off all contaminated clothing immediately. Wash off with soap and In case of skin contact

plenty of water. If skin irritation occurs: Get medical advice/ attention.

Rinse with plenty of water. If easy to do, remove contact lens, if worn. If In case of eye contact

eye irritation persists: Get medical advice/ attention.

Get medical advice/ attention. Rinse mouth. If swallowed

None known.

Most important symptoms and

effects, both acute and delayed

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Specific hazards during fire

fighting

Dry powder, Foam, Water spray, Carbon dioxide (CO2) No information available.

Specific extinguishing methods Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate

personnel to safe areas. Remove undamaged containers from fire

area if it is safe to do so.

Special protective equipment for :

fire-fighters

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proce-

dures

Environmental precautions Methods and materials for contain-

ment and cleaning up

Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled

around the leakage area by roping off, etc. Prevent product from entering drains.

Pick up and arrange disposal without creating dust.

SECTION 7. HANDLING AND STORAGE

Prevent dispersion of dust. Technical measures

Local/Total ventilation Ensure adequate ventilation. Use a local exhaust ventilation.

Advice on safe handling Avoid contact with skin, eyes and clothing. Wear personal protective

equipment. Wash hands and face thoroughly after handling.

Conditions for safe storage Keep container tightly closed. Store in a cool and shaded area. Pro-

tect from moisture. Keep under inert gas. Avoid exposure to light.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures Install a closed system or local exhaust. Also install safety shower

and eye bath.

Personal protective equipment

Respiratory protection Dust mask Hand protection Protective gloves

Safety glasses, Face-shield Eye protection

Skin and body protection Protective suit

*Use personal protective equipment(PPE) approved under appropriate government standards and follow local

and national regulations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid form white - yellow Color Odor No data available Odor Threshold No data available

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pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : No data available
Flash point : No data available
Flammability (solid, gas) : No data available
Upper explosion limit / Upper flam- : No data available

mability limit

Lower explosion limit / Lower flam-

mability limit

Vapor pressure : No data available Relative vapor density : No data available Relative density : No data available

Solubility(ies)

Water solubility : soluble

Solubility in other solvents

soluble : Alcohol Acetone

insoluble : Ether

Partition coefficient: n-octanol/water : No data available Autoignition temperature : No data available Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available Viscosity, kinematic : No data available Molecular weight : 334.81 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : None under normal processing.

Conditions to avoid : Exposure to moisture. Exposure to light.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Hy-

drogen chloride gas

No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity (other routes of admin- : LD50 (Mouse): 5.6 mg/kg

istration) Application Route: Intravenous

Skin corrosion/irritation

Result : Skin irritation

Serious eye damage/eye irritation

Result : Eye irritation

Respiratory or skin sensitization : No information available. **Germ cell mutagenicity** : No information available.

Carcinogenicity

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on

OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified

as a known or anticipated carcinogen by NTP.

Reproductive toxicity : No information available.
STOT-single exposure : No information available.
STOT-repeated exposure : No information available.
Repeated dose toxicity : No information available.
Aspiration toxicity : No information available.
No information available.

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RTECS No. : XF8100000 (2,3,5-Triphenyltetrazolium Chloride)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with

a Class I or Class II ODS as defined by the U.S. Clean Air Act Sec-

tion 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal in accordance with local and national regulations. Entrust

disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations. Before

disposal of used container, remove contents completely.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

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SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

2,3,5-Triphenyltetrazolium Chloride

298-96-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

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This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.