

Methyl ThiazolylDiphenylTetrazolium Bromide

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Methyl Thiazolyl Diphenyl Tetrazolium Bromide
Product Code: CM 23241
CAS#: 298-93-1
Chemical Formula: $C_{18}H_{16}BrN_5S$
Molecular Formula: 414.32 g/ mol
Formula Weight: NA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms: MTT 3-(4,5-Dimethyl-2-thiazolyl)-2,5-diphenyl-2H- tetrazolium bromide
Formula: $C_{18}H_{16}BrN_5S$
Molecular Weight: 414.32 g/ mol
CAS-No.: 298-93-1

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Skin irritation, H315: Causes skin irritation.
Eye irritation, H319: Causes serious eye irritation.
Germ cell mutagenicity, H341: Suspected of causing genetic defects.
Specific target organ toxicity - single exposureRespiratory system H335: May cause respiratory irritation.
Other hazards.-This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.
Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 4: FIRST AID MEASURES

Description of first aid measures
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact: rinse out with plenty of water. Remove contact lenses.
Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Serious Skin Contact: Not available
Serious Inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician
If swallowed: immediately make victim drink water (two glasses at most). Rinse mouth with water. Consult a physician.
Serious Ingestion: Not available
Most important symptoms and effects, both acute and delay No data available
Indication of any immediate medical attention and special treatment needed no data available.

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media
Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture no data available
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
 Specific end use(s) A part from the uses no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls
 Personal protective equipment
 Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
 Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
 Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
 Body Protection Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------------------------------|------|-----------------------------|
| Physical state and appearance | Form | : White crystalline Powder. |
| Odour | | : Not available |
| Taste | | : Not available |
| Molecular Weight | | : Not available |
| Colour | | : Not available |
| pH | | : Not available |
| Boiling Point | | : Not available |
| Melting Point | | : Not available |
| Critical Temperature | | : Not available |
| Specific Density | | : Not Available |
| Vapor Pressure | | : Not Available |
| Vapor Density | | : Not available |
| Volatility | | : Not Available |
| Odor Threshold | | : Not Available |
| Water/Oil Dist. Coeff. | | : Not Available |
| Ionicity (in Water) | | : Not Available |



Dispersion Properties : Not Available
Solubility : Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity no data available
Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions no data available
Conditions to avoid no data available
Incompatible materials Strong oxidizing agents
Hazardous decomposition products Other decomposition products - no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity
Oral: No data available
Dermal: No data available
Skin corrosion/irritation No data available
Serious eye damage/eye irritation Rabbit Result: No eye irritation
Respiratory or skin sensitization Maximization Test-Guinea pig no data available
Carcinogenicity: No data available.
Reproductive toxicity no data available
Specific target organ toxicity - no data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity no data available
Persistence and degradability no data available
Bio-accumulative potential no data available
Mobility in soil no data available
Results of PBT and vPvB assessment PBT/vPvB assessment not data available
Other adverse affects no data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: IMDG: IATA:

UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Transport hazard class(es): IMDG: IATA:
ADR/RID:

Packaging group: IMDG: IATA:
ADR/RID:



Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

SECTION 15: OTHER REGULATORY INFORMATION

Regulatory information This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements

Not Available

Other Special Considerations: Not available.

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