

NITROTETRAZOLIUM BLUE CHLORIDE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Nitrotetrazolium Blue chloride

Product Code: TMB 056

CAS#: 298-83-9

Synonym: p-Nitro-Blue tetrazolium chloride

Chemical Name: Not available. Chemical Formula: C₄₀H₃₀N₁₀O₆Cl₂

Formula Weight: 817.64

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: 5,5'-diphenyl-3,3'-bis(4-nitrophenyl)-2,2'-(3,3'-dimethoxybiphenyl-4,4'- ylene)ditetrazolium dichloride, Methanol Toxicological Data on Ingredients: Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H315, H319, H335

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Skin irritation (Category 2), H315 Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 2), Eyes, Central nervous system, H371

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Potential Acute Health Effects: Acute toxicity, Oral (Category 4), H302

Potential Chronic Health Effects: Not available.

Carcinogenic Effects: Not available. Mutagenic Effects: Not available. Teratogenic Effects: Not available. **Developmental Toxicity:** Not available.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention. Serious Inhalation: Not Available.

Ingestion: Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms

Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder













MATERIAL SAFETY DATA SHEET

Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen chloride gas

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen chloride gas

Combustible.

Risk of dust explosion.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Storage conditions:

Tightly closed. Dry. Recommended storage temperature 2 - 8 °C Light sensitive.

Storage class:

Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

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.

Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:CrystallineOdor:Not available





MATERIAL SAFETY DATA SHEET

Color Light yellow : **Molecular Weight** Not available рΗ Not available Not available **Boiling Point Melting Point** Not available **Critical Temperature** Not available **Specific Gravity** 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

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Instability Temperature: Not available **Conditions of Instability:** Not available

Incompatibility with various substances: Strong oxidizing agents

Special Remarks on Corrosivity: Non-corrosive. **Special Remarks on Reactivity:** Not available

Possibility of hazardous reactions: Violent reactions possible with: Strong oxidizing agents

Hazardous decomposition products: In event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity:

Acute toxicity estimate Oral - 446,57 mg/kg

LD50 Oral - Mouse - 2.000 mg/kg (5,5'-diphenyl-3,3'-bis(4-nitrophenyl)-2,2'-(3,3'-

dimethoxybiphenyl-4,4'-ylene)ditetrazolium dichloride) Acute toxicity estimate Inhalation - 4 h - > 20 mg/l Acute toxicity estimate Dermal - > 2.000 mg/kg

Inhalation: Not available Dermal: Not available

Routes of Entry: Not available **Toxicity to Animals:** Not available

Chronic Effects on Humans: Not available
Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans: May cause respiratory irritation.

Reproductive toxicity: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available **BOD and COD:** Not available

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation: Not available **Special Remarks on the Products of Biodegradation:** Not Available





MATERIAL SAFETY DATA SHEET

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):

ADR/RID: IMDG: IATA:

Packaging group:

ADR/RID: IMDG: IATA:

Environmental hazards:

ADR/RID: no IMDG Marine pollutant: no IATA: no

SECTION 15: REGULATORY INFORMATION

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:

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H370 Causes damage to organs.

H371 May cause damage to organs.

Other Special Considerations: Not available

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