

## NITRO BLUE TETRAZOLIUM (NITRO TETRAZOLIUM BLUE, NBT), AR GRADE

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: NITRO BLUE TETRAZOLIUM (NITRO TETRAZOLIUM BLUE, NBT), AR GRADE  
Product Code: CM 23271  
CAS#: 298-83-9  
Chemical Name: Not available  
Chemical Formula:  $C_{40}H_{30}Cl_2N_{10}O_6$   
Molecular Weight: 817.6

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:  
Name: NITRO BLUE TETRAZOLIUM (NITRO TETRAZOLIUM BLUE, NBT), AR GRADE  
CAS#: 298-83-9  
Chemical Formula:  $C_{40}H_{30}Cl_2N_{10}O_6$   
Molecular Weight: 817.6

### SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:  
Classification according to Regulation (EC) No 1272/2008:  
Acute toxicity, Oral (Category 4), H302  
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  
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

### SECTION 4: FIRST AID MEASURES

Description of first aid measures: General advice Consultaphysician. Show this safety data sheet to the doctor in attendance.  
If inhaled If breathed in: Move person into fresh air. If notbreathing, give artificial respiration. Consult a physician.  
In case of skin contact: Wash off with soap and plenty ofwater. Consult a physician.  
In case of eye contact: Flush eyes with water as a precaution.  
If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
Most important symptoms and effects, both acute and delay: Not available  
Indication of any immediate medical attention and special treatment needed: Not available

### SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media:  
Suitable extinguishing media: Water Foam Carbon dioxide(CO2) Dry powder  
Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given  
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  
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.  
Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system



**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: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.  
Conditions for safe storage, including any incompatibilities: Store in cool place, Keep container tightly closed in a dry and well-ventilated place Light sensitive. Store under inert gas

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure controls:

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.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) 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).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Form	:Yellow Colour Powder
Colour	:Not available
Odour	:Not available
Odour Threshold	:Not available
pH	:Not available
Melting point/freezing point	:Not available
Initial boiling point and boiling range	:Not available
Flash point	:Not available
Evaporation rate	:Not available
Flammability (solid, gas)	:Not available
Upper/lower flammability or explosive limits	:Not available
Vapour pressure	:Not available
Vapour density	:Not available
Relative density	:Not available
Water solubility	:Not available
Partition coefficient	:Not available
Auto-ignition temperature	:Not available



**SECTION 10: STABILITY AND REACTIVITY DATA**

Reactivity: The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed  
 Chemical stability: The product is chemically stable under standard ambient conditions (room temperature)  
 Possibility of hazardous reactions: Violent reactions possible with: Strong oxidizing agents  
 Conditions to avoid: Not available  
 Incompatible materials: Strong oxidizing agents  
 Hazardous decomposition products Other decomposition products: Not available

**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute toxicity: Acute toxicity estimate Oral - 446,57 mg/kg(Calculation method) 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) Remarks: (RTECS)  
 Acute toxicity estimate Inhalation - 4 h - > 20 mg/l - vapor(Calculation method) Acute toxicity estimate Dermal - > 2.000 mg/kg  
 Skin corrosion/irritation: Not available  
 Serious eye damage/eye irritation: Not available  
 Respiratory or skin sensitization: Not available  
 Reproductive toxicity: Not available  
 Specific target organ toxicity: Not available

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity: Not available  
 Persistence and degradability: Not available  
 Bio accumulative potential: Not available  
 Mobility in soil: Not available  
 Results of PBT and vPvB assessment PBT/vPvB assessment: 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  
 Other adverse effects: Not available

**SECTION 13: DISPOSAL CONSIDERATIONS**

WasteDisposal:Wastemustbedisposed 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: 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 no data available  
Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

**SECTION 16: OTHER INFORMATION**

References: Full text of H-Statements referred to under sections 2 and 3:

H225 Highly flammable liquid and vapor

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Causes skin irritation.

H315 Causes serious eye irritation.

H319 May cause respiratory irritation.

H331 Harmful if swallowed.

H335 Toxic in contact with skin.

H370 Causes skin irritation.

H371 Causes serious eye irritation

Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

