

AerBio, Ltd.
320 North Walnut
Bloomington, IN 47404

Telephone: 812.334.1540

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Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Chemical Name and Synonyms: 3,3',5,5'-Tetramethylbenzidine

Trade name and Synonyms: TMB

Chemical Family: Aromatic Amine

CAS No.: 54827-17-7

Formula: C₁₆H₂₀N₂

SECTION 2: HAZARDOUS INGREDIENTS

Paints, Preservatives & Solvents:

Pigments: not applicable

Catalyst: n.a.

Vehicle: n.a.

Solvents: n.a.

Additives: n.a.

Alloys and Metallic Coatings:

Base Metal: Not applicable

Alloys: n.a.

Metallic Coatings: n.a.

Filler Metal: n.a.

plus Coating or Core Flux

Others: n.a.

Hazardous mixtures of other liquids, solids, or gases:

not applicable

SECTION 3: PHYSICAL DATA

Boiling Point (°F.): melts 166 - 171°C

Vapor Pressure (mm Hg.): unknown

Vapor Density (AIR=1): unknown

Solubility in Water: Lt 1%

Appearance and Odor: off-white to tan powder; amine odor

Specific Gravity: unknown

Percent Volatile by Volume (%): unknown

Evaporation Rate: unknown

SECTION 4: FIRE AND EXPLOSION DATA

Flash Point (Method Used): unknown

Extinguishing media: Carbon dioxide or dry chemical

Special Fire Fighting Procedures: None special

Unusual Fire and Explosion Hazards: None unusual

SECTION 5: HEALTH HAZARD DATA

Threshold Limit Value: Not known at this time

Effects of Overexposure: Not known at this time

Avoid dust exposure

Emergency First Aid Procedures:

Ingestion: Induce vomiting & consult a physician

Skin: Flush with soap & water
Eyes: Flush with copious amounts of water

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SECTION 6: REACTIVITY DATA

Stability: Stable, under normal conditions of use
Incompatibility (Materials to avoid): strong oxidizing conditions & strong acids
Hazardous Decomposition Products: Emits harmful vapor when heated above melting point
Hazardous Polymerization: Will not occur, under normal conditions of use

SECTION 7: SPILL AND LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Cover & sweep up with inert carrier (e.g. sand, soda ash), remove to certified landfill

Waste Disposal Method:

Dissolve in combustible solvent & burn in a chemical incinerator equipped with afterburner & scrubber, or sweep up & return to original container

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Cotton filter mask

Ventilation:

Local Exhaust: yes
Mechanical: yes
Special: none

Protective Gloves: Rubber or vinyl
Eye Protection: Goggles and face shield
Other Protective Equipment: Lab apron or equivalent

SECTION 9: SPECIAL PROCAUTIONS

Special precautions to be taken in handling and storing:

Store in cool, dark & dry conditions / avoid dust, store at room temperature

Other precautions:

Toxicity unknown: take measures to avoid exposure, handle as poison. Non-carcinogenic in Ames test: Proc. Nat. Sci (USA) 72, 5133 (1975)