# **SIGMA-ALDRICH**

# **SAFETY DATA SHEET**

Version 5.1 Revision Date 11/12/2015 Print Date 09/10/2018

1. PRODUCT AND COMPANY ID	ENTIFICATION			
Product name	: TPBi			
Product Number Brand Product Use	: 806781 : Aldrich : For laboratory research	purposes.		
Supplier	: Sigma-Aldrich Canada 2149 Winston Park Driv OAKVILLE ON L6H 6J CANADA	/e er	: Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA	
Telephone Fax Emergency Phone # (For both supplier and	: +1 9058299500 : +1 9058299292 : +1-703-527-3887 (CHE	MTREC)		
manufacturer) Preparation Information	: Sigma-Aldrich Corpora Product Safety - Americ 1-800-521-8956			
2. HAZARDS IDENTIFICATION				
<b>Emergency Overview</b>				
WHMIS Classification				
Not contro	Not controlled.			
Not a hazardous substar	Not a hazardous substance or mixture.			
HMIS Classification Health hazard: Flammability: Physical hazards:	0 0 0			
Potential Health Effects				
Inhalation Skin Eyes Ingestion	SkinMay be harmful if absorbed through skin. May cause skin irritation.EyesMay cause eye irritation.			
3. COMPOSITION/INFORMATION	N ON INGREDIENTS			
Synonyms	: 2,2',2" (1,3,5-benzenet	riyl) tris(1-phenyl-1H-benzim	idazole)	
Formula Molecular weight	: C45H30N6 : 654.76 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
	)-tris(1-phenyl-1-H-benzimi	dazole)		
192198-85-9	-	-	<=100%	

### **4. FIRST AID MEASURES**

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### 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.

### **5. FIREFIGHTING MEASURES**

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Explosion data - sensitivity to mechanical impact

No data available

Explosion data - sensitivity to static discharge No data available

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid dust formation. Avoid breathing vapours, mist or gas.

#### **Environmental precautions**

No special environmental precautions required.

#### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Keep in a dry place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Personal protective equipment

#### **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).

#### Hand 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.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the Aldrich - 806781 Page 2 of 5 specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

General industrial hygiene practice.

#### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

	Form	powder			
	Colour	white			
Sa	Safety data				
	рН	No data available			
	Melting point/freezing point	Melting point/range: 272 - 277 °C (522 - 531 °F)			
	Boiling point	No data available			
	Flash point	No data available			
	Ignition temperature	No data available			
	Auto-ignition temperature	No data available			
	Lower explosion limit	No data available			
	Upper explosion limit	No data available			
	Vapour pressure	No data available			
	Density	No data available			
	Water solubility	No data available			
	Partition coefficient: n-octanol/water	No data available			
	Relative vapour density	No data available			
	Odour	No data available			
	Odour Threshold	No data available			
	Evaporation rate	No data available			

# **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions No data available

Conditions to avoid No data available

Materials to avoid Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available

# **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Oral LD50 No data available

Inhalation LC50 No data available

Dermal LD50 No data available

Other information on acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitisation** No data available

Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

No data available

#### Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System) No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available

Aspiration hazard No data available

#### Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects No data available

Additional Information RTECS: Not available

#### **12. ECOLOGICAL INFORMATION**

#### Toxicity

No data available Aldrich - 806781

# Persistence and degradability

No data available

# Bioaccumulative potential

No data available

#### Mobility in soil No data available

#### **PBT and vPvB assessment** No data available

#### Other adverse effects

No data available

# **13. DISPOSAL CONSIDERATIONS**

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

#### **14. TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

IMDG Not dangerous goods

#### IATA

Not dangerous goods

# **15. REGULATORY INFORMATION**

#### **WHMIS Classification**

Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

# **16. OTHER INFORMATION**

# Further information

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