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# SAFFTY DATA SHEET

# According to GHS Globally Harmonised System

819

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product identifier

Product name: Bis(2,4,6-trimethylbenzoyl) Phenylphosphine Oxide

CAS number: 162881-26-7

ELINCS number: 423-340-5

Trade name: VL-1080

Recommended use of the chemical and restrictions on use

Relevant identified uses: Photo initiator for UV-cure. may be used in UV curable inks, prepregs and clear-

pigmented coatings for applications on wood, metal, plastic, paper and optical fibers.

Uses advised against: No data available.

## 2. HAZARDS IDENTIFICATION

GHS classification of the substance/mixture

**Hazard classes and Hazard Categories:** Skin Sens. 1

Aquatic Chronic 4

Hazard Statement code(S) H317

H413

**Additional information:** Full text of H-statement(s):see section 16

GHS label elements

**Substance:** Bis(2,4,6-trimethylbenzoyl) Phenylphosphine Oxide

Hazard pictograms:

 $\bigcirc$ 

GHS07 Wng

Signal word: Warning

Hazard statements: H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

Hazard symbol(s): Xi Irritant

**Prevention:** P280 Wear protective gloves.



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**R-phrase(s):** R43 May cause sensitization by skin contact.

R53 May cause long-term adverse effects in the aquatic environment.

**S-phrase(s):** S22 Do not breathe dust.

S24 Avoid contact with skin. S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Other Hazard

Not available.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Ingredients information

Chemical name	synonyms	EC No.	CAS No.	Classification	Concentration
				according to	
				GHS	
Bis(2,4,6-trimethylbenzoyl)	Phenylbis	423-340-5	162881-26-7	Skin Sens. 1	99+%
Phenylphosphine Oxide	(2,4,6-trimethylbenzoyl)			Aquatic	
	phosphine oxide			Chronic 4	
				H317	
				H413	

## Additional information

Full text H-statement(s):see section 16.

The rest unspecified ingredients are impurities, and they are not hazard.

#### 4. FIRST AID MEASURES

# Description of first aid measures

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult

a physician.

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

a physician.

## 5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-

Wear self contained breathing apparatus for fire fighting if necessary.

fighters:

Special hazard arising from the substance or mixture



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Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

### Special protective equipment and precautions for firefighters

Wear full protective clothing. Wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### Environmental precautions

Do not let product enter drains. Discharge into the environment must be avoided.

#### Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

### Precautions for safe handing

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Conditions for safe storage

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

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

Exposure limit values: No data available.

#### Appropriate engineering controls

Provide exhaust ventilate or other engineer control to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

## Individual protection measures -personal protective equipment

Respiratory: Where risk assessment shows air-purifying respirators are appropriate use a dust mask type

N95 (US) or

type P1 (EN 143) respirator. Use respirators and components tested and approved under

appropriate

government standards such as NIOSH (US) or CEN (EU).

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Hand protection: The selected protective gloves have to satisfy the specifications of EU Directive

89/686/EEC and the

standard EN 374 derived from it.

Handle with gloves.

Eye protection: Face shield and safety glasses

Skin protection: Choose body protection according to the amount and concentration of the dangerous

substance at the work place.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

## Environmental exposure controls

Do not allow material to be released to the environment without the proper governmental permits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

State: Powder or crystal

Color: Yellowish

Odour: not tested

**Melting/freezing temperature:** 127-133°C

**Boiling point/range 98.3 kPa:** not tested

**Density:** 1.17 g/cm3 20°C 760Torr

Flash point: not tested

**Ignition Temperature:** not tested

Oxidising properties: not tested

**Self-ignition temperature**; not tested

Water solubility 20 °C: not tested

Vapour pressure 20 °C: not tested

Partition coe.; Log Pow 20-25 °C; not tested

pH-value: not tested

**Explosive properties:** not tested

# 10. STABILITY AND REACTIVITY

## Decomposition temperature

Stable under recommended storage conditions.

Conditions to avoid

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No data available.

#### Materials to avoid

Oxidizing agents, Strong acids, Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus

### 11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

Acute toxicity: No data available.

Respiratory or skin sensitization: May cause allergic skin reaction.

CMR effects(Carcinogenicity, Mutagenicity and Toxicity for Reporduction)

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.

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.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

No data available.

### **Biodegradability**

No data available.

#### Other adverse effects

May cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

# Waste from residues / unused products

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

#### ADR/RID

Not dangerous goods.

**IMO** 

Not dangerous goods.

**ICAO** 

Not dangerous goods.

### 15. REGULATORY INFORMATION

US federal and state regulations

TSCA: CAS #162881-26-7 is listed on the TSCA Inventory.

European union regulations

**ELINCS:** CAS #162881-26-7 is listed on the Inventory.

China regulation

**IECSC:** CAS# 162881-26-7 is listed on the IECSC inventory.

Other chemical inventories

Canada – DSL/NDSL: CAS #162881-26-7 is listed on the Inventory.

**Australia AICS** CAS #162881-26-7 is listed on the Inventory.

**New Zealand:** CAS #162881-26-7 is listed on the Inventory.

**Japan ENCS (MITI):** CAS #162881-26-7 is listed on the Inventory.

**Korea ECL:** CAS #162881-26-7 is listed on the Inventory.

**Philippines PICCS:** CAS #162881-26-7 is listed on the Inventory.

**Switzerland SWISS:** CAS #162881-26-7 is listed on the Inventory.

## 16. OTHER INFORMATION

## Text of H-code(s) and R-phrase(s) mentioned in Section 3

Aquatic Chronic Chronic aquatic toxicity

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

Skin Sens. Skin sensitization

Xi Irritant

R43 May cause sensitization by skin contact.

R53 May cause long-term adverse effects in the aquatic environment.

Other information



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