

SAFFTY DATA SHEET

According to GHS Globally Harmonised System

ТРО

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name:	Diphenyl (2,4,6-trimethylbenzoyl)-phosphine oxide
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CAS number: 75980-60-8

EINECS number: 278-355-8

Product code: VL-1050

Use/description of product: Photo initiator for UV-cure.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Contains: Diphenyl (2,4,6-trimethylbenzoyl)-phosphine oxide 99+%

3. HAZARDS IDENTIFICATION	
Main hazards:	Non – Harmful
4. FIRST AID MEASURES	
General advice:	Immediately remove contaminated clothing. If danger of loss of consciousness, place
	patient in recovery position and transport accordingly. Apply artificial respiration if
	necessary.
Skin contact:	Wash off with soap and plenty of water.
Eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held
	open, consult an eye specialist.
Ingestion:	Immediately rinse mouth and then drink plenty of water, summon physician.
Inhalation:	Keep patient calm, remove to fresh air, summon medical help.
5. FIRE FIGHTING MEASURES	
Extinguishing media:	Water spray, foam, dry extinguishing media, carbon dioxide (CO2).
6. ACCIDENTAL RELEASE MEASURES	
Clean-up procedures:	Sweep/shovel up.
7. HANDLING AND STORAGE	
Handling requirements:	Provide appropriate exhaust ventilation at machinery.
	Protection against fire and explosion: Take precautionary measures against static

discharges.

Storage conditions: Store cool. Protect contents from the effects of light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Exposure limit(s):	internal exposure limit (8 hour time weighted average)
	Value10 mg/m3 Justification to exposure limit.
	Exposure limit for inhalable dust.
Technical measures/Precautions:	Exposure limit(s) should be monitored using suitable analytical equipments.
Respiratory:	If ventilation is inadequate, dust mask Filter P2 (for solid and liquid particles) (DIN 3181)
Hand protection:	Chemical resistant gloves.
Eye protection:	Suitable goggles.
Skin protection:	Hands and/or face should be washed before breaks and at the end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	powder or crystal
Color:	Pale yellow
Odour:	Characteristic odour
Melting/freezing temperature:	91-94°C
Boiling point/range:	519.6°C
Density 20 °C:	1.17 g/cm3
Flash point:	121 °C
Ignition Temperature:	380 °C
Oxidising properties:	not tested
Self-ignition temperature:	not tested
Water solubility 25 °C:	0.013 g/L
Vapour pressure 25 °C:	6.71E-11 Torr
Partition coe. Log Pow 20 °C;	not tested
pH-value:	not tested
Dynamic Viscosity 20 °C:	not tested
Explosive properties:	not tested
10. STABILITY AND REACTIVITY	

Thermal decomposition: No decomposition if used as directed.

Hazardous reactions: None provided product is correctly processed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Rat



	LD50 > 5000 mg/kg
Acute dermal irritation/corrosion:	Rabbit
	not irritant
Acute eye irritation/corrosion:	Rabbit
	not irritant
Reproduction toxicity:	reproduction toxicity tested in vivo: rat
	After oral administration at high concentrations: Risk of impaired fertility.
12. ECOLOGICAL INFORMATION	
Acute toxicity to fish:	EC50 (96 h): 10–100mg/l, Leuciscus idus
Acute toxicity to daphnia:	EC50 (48 h): 10-100mg/l
Acute toxicity to bacteria:	EC50 (17 h): >500mg/l, DIN 38412 Part 8
Acute toxicity to algae:	EC50 (72 h): 10–100mg/l
Behaviour and environmental fate:	Inhibition of degradation activity in activated sludge is not to be anticipated during
	correct introduction of low concentrations.
Elimination information:	The product is virtually insoluble in water and can thus be separated from water
	mechanically in suitable effluent treatment plants.
	Do not discharge product into natural waters without pretreatment (biological
	treatment plant).

13. DISPOSAL CONSIDERATIONS	
Waste from residues / unused	Residual chemical should be disposed by incineration or by other modes of disposal
products:	in compliance with local legislation.
14. TRANSPORT INFORMATION	
Not classified as hazardous under transport regulations.	
15. REGULATORY INFORMATION	
Hazard symbols:	Xn – Harmful
Risk phrases:	R62 – Possible risk of impaired fertility.
	R52/53 – Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment.

Safety phrases:	S22 – Do not breathe dust. S61 – Avoid release to the environment. Refer to special
National legislation/regulations:	instructions/Safety data sheets. Water hazard class: 2 (VwVwS (Germany) of 17.5.1999, Annex 3)
	TA Luft(Germany): Class II, number 3.1.7

16. OTHER INFORMATION

Other information: Employers should use this information only as a supplement to



other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.