



MSDS
MATERIAL SAFETY DATA SHEET

Revision date: 10/1/2014
MSDS n°42

MATERIAL SAFETY DATA SHEET
Directive CEE 2001/58

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Varnish - JETvarnish 3D MGI Ref: 8477

Used for: JETvarnish 3D

Supplier Identification:

MGI Digital Graphic Technology
161 avenue de Verdun
94204 IVRY/SEINE CEDEX France
Tél. : (33) 1 45 21 06 60 – Fax : (33) 1 45 21 14 90
E-mail : p.allais@mgi-fr.com
info@mgi-fr.com - www.mgi-fr.com

Emergency telephone:

N° ORFILA: +33 1. 45. 42. 59. 59 (Official organism)
Information center specialized on symptoms of poisoning Paris
Tél. : +33 1.40.05.48.48 and www.centres-antipoison.net

2 HAZARDS IDENTIFICATION

Irritating to respiratory system ,eyes and skin
May cause sensitisation by skin contact
Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment.

3 COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

component	%	N° CAS	Symbole(s)	Phrase(s) R
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3/4	75980-60-8	Xn	62/52/53
Acrylic monomer	60/50	ND	Xi	36/37/38/43
acrylic polymer	20/25	ND	Xi	36/37/38/43

ND = No Data

4 FIRST AID MEASURES

Skin Contact:

Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water. Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES**Suitable Extinguishing Media:**

Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

Protective Equipment:

Fire-fighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

Special Hazards:

Keep containers cool by spraying with water if exposed to fire.

6 ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Methods for cleaning up:

Remove sources of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

7 HANDLING AND STORAGE**Handling**

Precautionary Measures: Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container tightly closed. Keep away from heat, sparks and flame. Do not eat, drink or smoke when using material. Provide exhaust ventilation.

Storage Temperature : Store at 4-35 °C (59-95°F)

Reason : Quality.

Storage

Observe label precautions. Prevent unauthorised access. Keep away from sources of ignition ;Keep away from oxidizing agents, from alkaline and acid materials. Containers which are opened must be carefully resealed and kept upright to prevent leakage. This material should not be stored for more than the period mentioned on the Technical Data Sheet (TDS).;Store between 4°C and 60°C max.; Protect from direct sunlight ;This might cause uncontrollable polymerization of the product with generation of heat. Storage in stainless steel, amber glass, amber polyethylene or baked phenolic lined container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

components	N° EINECS	N° CAS	VLE	VE
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8	NA	NA
Acrylic monomer	ND	Préparation	NA	NA
Acrylic polymer	ND	Préparation	NA	NA

ND : No Data

NA : Not Applicable



Respiratory protection:

For operations where inhalation exposure can occur, use an approved respirator recommended by an industrial hygienist after an evaluation of the operation. Where inhalation exposure can not occur, no respiratory protection is required.

Skin Protection:

Avoid skin contact. Wear impermeable gloves and suitable protective clothing.

Eye protection:

Wear eye/face protection such as chemical splash proof goggles or face shield.

Hand protection:

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Nitrile rubber gloves. Do not use natural rubber gloves. Do not wear PVC gloves as PVC absorbs acrylates. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

Additional advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour: colorless to yellow

Appearance: Liquid

Boiling Point : > 100°C

pH : Not applicable

Density : >1

Auto-ignition temperature: Not available

Fusion temperature : Not available

Decomposition temperature: Not available

Evaporation rate : Not applicable

Viscosity: Not available

Saturation In Air (% By Vol.) : Not applicable

Solubility In Water: INSOLUBLE

Fat Solubility (Solvent-Oil): Not available

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Storage > 100 °F. Exposure to sunlight. Loss of dissolved air. Loss of polymerization inhibitor. Avoid exposure to strong UV sources. Avoid temperatures higher than 60°C(140°F); Protect from direct sunlight ; Avoid direct contact with heat sources. Avoid friction with temperature increase as result.

Polymerization : May occur

Materials to avoid: Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust, and strong bases ;Hazardous polymerization may

occur. Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers. Avoid free radical producing initiators. Avoid contact with peroxides. Avoid contact with reactive metals. Avoid contact with strong alkali's. Unintentional contact with

hem should be avoided. They give an exothermic reaction with the product.

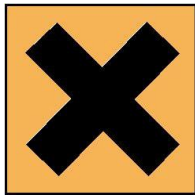
Hazardous decomposition products : hydrocarbons ;oxides of carbon ;Hazardous exothermic polymerization can occur when heated. Hazardous polymerization can occur when exposed to direct sunlight. Carbon monoxide (CO);carbon dioxide ;smoke ;soot.

11. TOXICOLOGICAL INFORMATION

No experimental data is available for this preparation. This preparation is analyzed according to Directive 99/45/EC and classified in accordance with the dangers of toxic substances. The information comes from tests done by our suppliers (for details, see sections 2 and 15). The substances in this preparation may pose risks: For example, compounds of acrylic UV inks have irritant properties. Prolonged contact with skin or mucous membranes may cause cases of allergic reactions (rashes, dermatitis, blisters). Ingestion may cause nausea, weakness and the effects on the central nervous system.

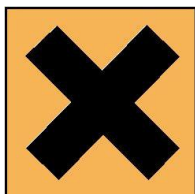
PRODUCT TOXICITY INFORMATION

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide : N° CAS : 75980-60-8 ; N° EINECS : 278-355-8



Acute LD 50 oral rat : > 5000 mg/kg
Acute LD 50 dermal rabbit : No Data
Acute LC 50 4 hr inhalation rat : No Data

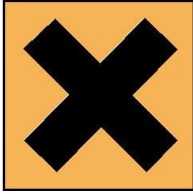
Acrylic Monomer	N° CAS : ND ; N° EINECS : ND
-----------------	------------------------------



LD 50 oral rat : No Data
LD 50 dermal rabbit : No Data
LC 50 inhalation rat :No Data
LC 50 aquatic : No Data

Acrylic polymer

N° CAS : No Data ; N° EINECS : No Data



LD 50 oral rat : ND
LD 50 dermal rabbit : ND
LC 50 inhalation rat :ND
LC 50 aquatic : ND

12. ECOLOGICAL INFORMATION

No data available for this preparation. The information below relate to products contained in this preparation: This information comes from tests done by our suppliers.

Do not discharge into sewers or water, comply with the judgments in force on this product.

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains or watercourses

Waste and packaging waste must be treated in accordance with local regulations.

14. TRANSPORT INFORMATION**ADR/RID**

Proper Shipping Name: Not applicable/ Not regulated

Class:

UN Number:

Packing Group:

IMO

Proper shipping name: Not applicable/ Not regulated

Hazard Class:

UN Number:

Packing group:

ICAO / IATA

Proper shipping name: Not applicable/ Not regulated

Hazard Class:

Packing group:

UN Number:

Passenger Aircraft : -

Cargo Aircraft : -

15. REGULATORY INFORMATION**Community rules**

Safety Data Sheet Directive 91/155 CEE as amended by Directive 93/112/CEE and Directive 2001/58/CEE

Directive 2001/59/CEE: Adapting to technical progress Council Directive 67/548/CEE, JOCE No. L225, 21/08/2001

Directive 1999/45/CE, JOCE No. L200, 30/07/1999, classification, packaging and labeling of dangerous preparations

amended by Directive 2001/60/CE, JOCE L226 of 22/08/2001, Directive 2006/CE Directive 2000/39/EC: VLE List

REACH 1907/2006

French Regulations

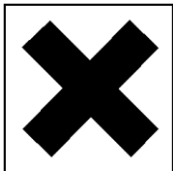
Professional Diseases / Social Security Code: Articles L461-1 to 8.

Classified Facilities: Law No. 76-663 of 19/07/76 (JO of 20/07/76) - Decree of 07/07/92, No. 93-1412 of 29/12/93, No. 96-197 of 11/03/96 and 99-1220 28/12/99 (activity resumed in the nomenclature).

Decree 77-1133 (installations classified) of 21/09/77 (JO of 08/10/77 made to law enforcement 76-663 on classified installations), as amended.

Waste: Law No. 75-633 of 15/07/75 (JO of 16/07/75 - Decree No. 77-9747 of 19/08/77 (waste generators nuisances. Technical Instruction on 22/01/80 industrial waste).

Order of 02/02/98 as amended by Decrees of 29/05/00 and 03/02/01, relating to removal, water consumption and emissions of any kind of classified installations for environmental protection subject to authorization.

Labelling according to EC Directive**Xi Irritant****Risk Phrases :**

R43 May cause sensitization by skin contact
R36/37/38 Irritating to respiratory system, eyes and skin
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S24 Avoid contact with skin
S26 In case of contact with eyes, rinse immediately with plenty of water and seek a medical advice
S28 After contact with skin, wash immediately with plenty of soap and water
S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection
S61 Avoid release to the environment. Refer to special instructions/ safety data sheets.

Hazardous ingredients**N°CAS**

75980-60-8 Oxyde de diphenyl (2,4,6-triméthylbenzoyl) phosphine
ND Acrylic Monomer
ND Acrylic Polymer

16. OTHER INFORMATION

This product is for professional users, please refer to the technical information for use.

Component Risk Phrases

R62 Possible risk of impaired fertility

R43 May cause sensitization by skin contact

R36/37/38 irritating to eyes, respiratory system and skin

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This MSDS is in compliance with the directives: 2001/58-59-60 -1999/45 - 67/548.

The information it contains are based on our knowledge at the date of dispatch, on the product and the information provided by our suppliers on the substances used in the composition. The attention of users is drawn to the risks incurred when a product is used for purposes other than those for which it is designed. The regulatory requirements referred merely to assist the recipient to fulfill its obligations when using a dangerous product. This list should not be considered exhaustive and does not ensure the recipient possibly other obligations incumbent on him not because of texts other than those cited for.