

Safety Data Sheet

according to Regulation (EC) No 1907/2006 and 1272/2008,
Hazard Communication Standard 29 CFR 1910 (USA),
WHS Regulations Australia,
JIS Z 7253 (2012) Japan

Figure 4® MED-WHT 10

Revision Date: April 10, 2019

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

1.1 Identification of the mixture: Figure 4 MED-WHT 10

1.2 Use of the preparation: For use with Figure 4 Printers

1.3 Company/undertaking identification:

3D Systems, Inc.
333 Three D Systems Circle
Rock Hill, South Carolina U.S.A.
Phone: 803.326.3900 or
Toll-free Phone: 800.793.3669
e-mail: moreinfo@3dsystems.com
Chemical Emergency:
800.424.9300 – Chemtrec

3D Systems Europe Ltd.
Mark House, Mark Road
Hemel Hempstead
Herts HP2 7 United Kingdom
Phone: +44 144-2282600
e-mail: moreinfo@3dsystems.com
Chemical Emergency:
+1 703.527.3887 - Chemtrec

3D Systems / Australia
5 Lynch Street
Hawthorn, VIC 3122
+1 03 9819-4422
e-mail: moreinfo@3dsystems.com
Chemical Emergency:
+(61) 29037.2994 – Aus Chemtrec

2. HAZARDS IDENTIFICATION

2.1 Classification:

GHS : Regulation (EC) No. 1272/2008, HazCom 29 CFR 1910, Australian Dangerous Goods Code:

Skin Sensitization	Category 1	H317
Hazardous to the aquatic environment — Chronic Hazard	Category 4	H413

2.2 Label Elements

Regulation (EC) No, 1272/2008:

Hazard pictograms and signal word:



GHS07

Signal word: Warning

Hazard determining components of labelling: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Hazard statements:

H317 May cause an allergic skin reaction
H413 Hazardous to the aquatic environment, may cause long lasting harmful effects to aquatic life

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P264 Wash skin thoroughly after handling
P280 Wear protective gloves, protective clothing, eye protection
P302+350 If on skin, wash with soap and water
P304+340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P311 Call a POISON CENTER/Doctor
P333+313 If skin irritation or rash occurs: Get medical advice/attention
P362 Take off contaminated clothing
P363 Wash contaminated clothing before reuse
P391 Collect spillage
P410+403 Protect from sunlight. Store in a well-ventilated place
P501 Dispose of contents/container in accordance with local/regional regulations

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization:

Description: Organic mixture

3.2 Dangerous components:

Chemical name	CAS-No	EC-No	%	Classification Regulation (EC) 1272/2008
Ethoxylated bisphenol A dimethacrylate	41637-38-1	609-946-4	>= 75	Aquatic Chronic 4, H413
Silicon dioxide	7631-86-9	231-545-4	5 - 10	Not classified
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	231-403-1	<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	1- 5	Skin Sens. 1B, H317 Repr. 2, H361f Aquatic Chronic 2, H411
Titanium dioxide	13463-67-7	236-675-5	0.1 - 1	Not classified
Methacrylic acid	79-41-4	201-204-4	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335

4. FIRST AID MEASURES

4.1 General Information: Ensure that eyewash stations and safety showers are close to the workstation location. Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours. Therefore, medical observation is required for at least 48 hours after the accident. In case of irregular breathing or respiratory arrest, provide artificial respiration. Involve doctor immediately.

4.2 In case of inhalation: Move affected person to fresh air. Call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Seek medical treatment. Do not use mouth to mouth or mouth to nose resuscitation.

4.3 In case of skin contact: May cause irritation or sensitization by skin contact, including redness and/or swelling. Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

4.4 In case of eye contact: Irritating to eyes. Causes redness, swelling and pain. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms persist.

4.5 In case of ingestion: Irritating to mouth, throat and stomach. If ingested, seek immediate medical attention. Do not induce vomiting.

4.6 Self-protection of the first aider: Put on appropriate protective equipment (see section 8). Move exposed person to fresh air. Remove contaminated clothing and shoes.

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5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2 Extinguishing media which must not be used for safety reasons: High volume water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Thermal decomposition products can include CO₂, CO, NO_x and smoke.

5.4 Special protective equipment for fire-fighters: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment..

5.5 Additional information: Move container from area if it can be done without risk. Cool containers with water spray. Avoid inhalation of material or combustion by-products.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing. Consult expert immediately.

6.2 Environmental precautions: Stop the flow of material, if this is without risk. Ventilate contaminated area. Eliminate sources of ignition. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

6.3 Methods for cleaning up: Wear appropriate protective equipment and clothing. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.

7. HANDLING AND STORAGE

7.1 Handling Provide adequate ventilation. Use suitable protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or mist. Avoid ignition sources. Do not allow to enter drains or watercourses.

7.2 Storage: Store sealed in the original container at room temperature. Keep this material indoors in a cool, dry, well ventilated place. Store out of direct sunlight or UV light sources. Keep container closed when not in use. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values:

Methacrylic acid (79-41-4)		
United Kingdom	Local name	Methacrylic acid
United Kingdom	WEL TWA (mg/m ³)	72 mg/m ³
United Kingdom	WEL TWA (ppm)	20 ppm
United Kingdom	WEL STEL (mg/m ³)	143 mg/m ³
United Kingdom	WEL STEL (ppm)	40 ppm
United Kingdom	Regulatory reference	EH40. HSE
Silicon dioxide (7631-86-9)		
United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol)

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Titanium dioxide (13463-67-7)		
EU	Local name	Titanium dioxide
EU	Notes	SCOEL Recommendations (Ongoing)
EU	Regulatory reference	SCOEL Recommendations
United Kingdom	Local name	Titanium dioxide
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ inhalable aerosol 4 mg/m³ respirable aerosol
United Kingdom	Regulatory reference	EH40. HSE
Ethoxylated bisphenol A dimethacrylate (41637-38-1)		
DNEL/DMEL (Workers)		
Ethoxylated bisphenol A dimethacrylate (41637-38-1)		
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	3.52 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.87 mg/m³	
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1.04 mg/kg bodyweight/day	
DNEL/DMEL (General population)		
Long-term - systemic effects, dermal	0.625 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.00466 mg/l	
PNEC aqua (marine water)	0.00000466 mg/l	
PNEC aqua (intermittent, freshwater)	0.0179 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.604 mg/kg bw	
PNEC sediment (marine water)	0.0604 mg/kg bw	
PNEC (Soil)		
PNEC soil	0.118 mg/kg bw	
PNEC (STP)		
PNEC sewage treatment plant	2.45 mg/l	
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	3.5 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.00353 mg/l	
PNEC aqua (marine water)	0.000353 mg/l	
PNEC aqua (intermittent, freshwater)	0.0353 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.29 mg/kg bw	
PNEC sediment (marine water)	0.029 mg/kg bw	
PNEC (Soil)		
PNEC soil	0.0557 mg/kg bw	

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Titanium dioxide (13463-67-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	700 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.000184 mg/l
PNEC aqua (marine water)	0.0184 mg/l
PNEC aqua (intermittent, freshwater)	0.193 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1000 mg/kg bw
PNEC sediment (marine water)	100 mg/kg bw
PNEC (Soil)	
PNEC soil	100 mg/kg bw
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

8.2 Exposure controls

Technical measures to prevent exposure: Use local exhaust ventilation.

Instructional measures to prevent exposure: When using, do not eat, drink or smoke. Wash hands after handling and before eating, smoking and using the lavatory and at the end of the day.

Personal protection equipment:

Respiratory protection: If ventilation cannot effectively keep vapor concentrations below established limits, appropriate certified respiratory protection must be provided. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Short term filter device: Filter A/P2

Hand protection: Use thick (>0.5 mm) impervious nitrile gloves.

Eye protection: Wear safety glasses or chemical goggles.

Body protection: Use apron and closed shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

Physical state	: Liquid
Colour	: Grey. white. peach.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 400 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available

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Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.26 g/cm ³
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.7 - 0.8 Pa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2 Other information

VOC content 0%

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Avoid exposure to heat and light. Take necessary actions to avoid static electricity discharge.

10.2 Materials to avoid: Not tested. Recommendation is to avoid Oxidizing materials, strong acids and strong bases

10.3 Hazardous decomposition products: Carbon dioxide, carbon monoxide and other toxic fumes can be released at high temperatures or upon burning.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution: NA

11.2 Toxicity tests data

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
LD50 oral rat	2000 mg/kg
LD50 dermal rat	2000 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
LD50 oral rat	3.16 - 6.81 ml/kg
Methacrylic acid (79-41-4)	
LD50 oral rat	1320 mg/kg
LD50 dermal rabbit	500 - 1000 mg/kg
LC50 inhalation rat (mg/l)	7.1 mg/l/4h
Silicon dioxide (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	2000 mg/kg

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Titanium dioxide (13463-67-7)	
LD50 oral rat	2000 - 25000 mg/kg
LC50 inhalation rat (mg/l)	3.43 - 6.82 mg/l/4h
Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight/day
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
NOAEL (oral, rat, 90 days)	25 - 500 mg/kg bodyweight/day
Methacrylic acid (79-41-4)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	100 - 1000 ppm
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)	
LOAEL (oral, rat, 90 days)	250 - 300 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	50 - 100 mg/kg bodyweight/day
Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight/day
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
NOAEL (oral, rat, 90 days)	25 - 500 mg/kg bodyweight/day
Methacrylic acid (79-41-4)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	100 - 1000 ppm
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)	
LOAEL (oral, rat, 90 days)	250 - 300 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	50 - 100 mg/kg bodyweight/day

Irritation to respiratory tract: May cause respiratory irritation

Skin irritation: May cause skin irritation

Eye irritation: May cause eye irritation

Sensitisation: Causes sensitisation

11.3 Experiences made in practice

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

11.4 General remarks:

Carcinogenicity: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP as carcinogens.

12. Ecological information

12.1 Ecotoxicity:

12.1.1 Mixture

Ecology – general	Avoid release to the environment.
Acute aquatic toxicity	Not classified
Chronic aquatic toxicity	May cause long lasting harmful effects to aquatic life

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12.1.2 : Ingredients

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
NOEC (chronic)	14.3 mg/l 28 d
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
LC50 fishes	1.79 mg/l
EC50 Daphnia	2.57 mg/l
EC50 72h algae (1)	2.28 mg/l
NOEC (chronic)	0.233 mg/l (21 d)
Methacrylic acid (79-41-4)	
LC50 fishes	85 mg/l
EC50 Daphnia	130 mg/l
EC50 72h algae (1)	20 - 45 mg/l
NOEC chronic fish	10 mg/l (35 d)
NOEC chronic crustacea	53 mg/l (21 d)
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)	
LC50 fishes	6.53 mg/l (48 h)
EC50 Daphnia	3.53 mg/l
EC50 72h algae (1)	2.01 mg/l
Titanium dioxide (13463-67-7)	
LC50 fishes	155 - 294 mg/l
EC50 Daphnia	19.3 - 33.6 mg/l
EC50 72h algae (1)	100 mg/l

12.2 Persistence and degradability

Titanium dioxide (13463-67-7)	
Biochemical oxygen demand (BOD)	not applicable
Chemical oxygen demand (COD)	not applicable
ThOD	not applicable
BOD (% of ThOD)	not applicable

12.3 Bioaccumulative potential

Ethoxylated bisphenol A dimethacrylate (41637-38-1)	
Log Pow	3.43 - 5.62 @ pH 6.44
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate (7534-94-3)	
Log Pow	5.09
Methacrylic acid (79-41-4)	
Log Pow	0.93 @ 22 °C and pH 2.2
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (75980-60-8)	
Log Pow	3.1 - 3.87 @ 23 °C and pH 6.4

12.4 Mobility in soil – No data available

13. DISPOSAL CONSIDERATIONS

13.1 Appropriate disposal / Product: Do not contaminate drains, soil or surface waters with this material or its container. Reduce waste by attempting to utilize product completely. Dispose of this container and its contents in accordance with all local, state, and federal regulations. Do not reuse or refill.

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13.2 Waste codes / waste designations according to EWC / AVV: 08 01 99 wastes not otherwise specified

13.3 Appropriate packaging: NA

13.4 Additional information: Prior to disposal 3D Systems recommends consulting an approved waste disposal firm to ensure regulatory compliance.

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE): Not regulated

14.2 Sea transport (IMDG-Code/GGVSee): Not regulated

14.3 Air transport (ICAO-IATA/DGR): Not regulated

15. REGULATORY INFORMATION

15.1 EU regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Methacrylic acid
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Figure 4 MED-WHT 10 - Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate - Methacrylic acid
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Figure 4 MED-WHT 10 - Ethoxylated bisphenol A dimethacrylate

15.2 Does not contain substances listed on the REACH candidate list

15.3 Does not contains substances listed on REACH Annex XIV

15.3 Germany : Wassergefährdungsklasse (water hazard class, Germany): WGK 2: Hazard to waters

16. OTHER INFORMATION

16.1 Relevant Hazard Statements (number and full text) referred to in sections 2 and 3 (according to (EC) No. 1272/2008):

Full text of H-statements:	
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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16.2 Further information:

SDS Creation Date: April 10, 2019

SDS Revision #: -00

SDS Revision Date:

Reason for Revision:

www.3dsystems.com

800.793.3669 (Toll-free in the US GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

803.326.3900 (Outside the U.S. GMT-07:00; N. America, Mon – Fri, 6:00 a.m. to 6 p.m.)

+44 144-2282600 (Europe GMT+01:00; Mon – Fri, 08:00 a.m. - 17:00 p.m. MEZ)

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