

1 Identification

· Product identifier

·!Product number TUM1A484

·!Trade name: **UV R/C 20SHN SILVER POWER T/C**

· Application of the substance / the mixture For professional use

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

IVM Chemicals Srl

Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441

· Information department:

Environmental Health and safety office

hseoffice@ivmchemicals.com

· Emergency telephone number:

ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· Classification of the substance or mixture

Flammable Liquids 3

Skin Irritation 2

Eye Damage 1

Sensitization - Skin 1

Carcinogenicity 1A

Specific Target Organ Toxicity - Repeated Exposure 2

Aquatic Acute 2

Aquatic Chronic 2

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H350 May cause cancer. Route of exposure: Inhalation.

H373 May cause damage to the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Oral.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS05 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining components of labeling:

oxybis(methyl-2,1-ethanediyl) diacrylate

benzophenone

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Quartz (SiO₂)

hexamethylene diacrylate

Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl acrylate and N-ethylethanamine

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

· Hazard statements

H226 Flammable liquid and vapor.

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H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer. Route of exposure: Inhalation.
 H373 May cause damage to the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Oral.
 H401 Toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a poison center/doctor.
 P321 Specific treatment (see on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)











3 Composition/information on ingredients

Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

Dangerous components:

57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate  	20-24.99%
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid   Aquatic Acute 2, H401	≥2.5-<25%
13048-33-4	hexamethylene diacrylate  	≥2.5-<10%
123-86-4	n-butyl acetate  	5-9.99%

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		(Contd. of page 2)
111497-86-0	Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl acrylate and N-ethylethanamine ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1B, H317	5-9.99%
119-61-9	benzophenone ⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10%
7473-98-5	2-hydroxy-2-methylpropiophenone ⚠ Acute Toxicity - Oral 4, H302 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	2.5-<25%
110-19-0	isobutyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	1-2.49%
308069-39-8	Silver phosphate glass ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%
14808-60-7	Quartz (SiO ₂) ⚠ Carcinogenicity 1A, H350	≥0.1-<0.5%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Sensitization - Skin 1A, H317 Aquatic Chronic 4, H413	≥0.1-<0.5%
108-31-6	maleic anhydride ⚠ Sensitization - Respiratory 1, H334 ⚠ Skin Corrosion 1B, H314 ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	≥0.001-<0.1%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: Do not induce vomiting; immediately call for medical help.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

Allergic reactions

For symptoms and effects caused by substances, refer to Section 11.

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- *Indication of any immediate medical attention and special treatment needed*
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- *Suitable extinguishing agents:*

Alcohol resistant foam

Alcohol resistant foam, CO, powder, water spray/mist.

- *For safety reasons unsuitable extinguishing agents:*

Do not use a jet water stream as it may scatter and spread fire.

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

- **Advice for firefighters**

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

- *Protective equipment:*

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-I:**

13048-33-4	hexamethylene diacrylate	3 mg/m
123-86-4	n-butyl acetate	5 ppm
119-61-9	benzophenone	1.5 mg/m
110-19-0	isobutyl acetate	450 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m

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· PAC-2:		
13048-33-4	hexamethylene diacrylate	170 mg/m
123-86-4	n-butyl acetate	200 ppm
119-61-9	benzophenone	90 mg/m
110-19-0	isobutyl acetate	1300* ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m
· PAC-3:		
13048-33-4	hexamethylene diacrylate	990 mg/m
123-86-4	n-butyl acetate	3000* ppm
119-61-9	benzophenone	310 mg/m
110-19-0	isobutyl acetate	7500** ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Protect against electrostatic charges.

Keep respiratory protective device available.

Use explosion-proof apparatus / fittings and spark-proof tools.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.

Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.

In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep receptacle tightly sealed.

· Specific end use(s) Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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13048-33-4 hexamethylene diacrylate

WEEL	Long-term value: 1 mg/m
	DSEN

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m , 150 ppm
REL	Short-term value: 950 mg/m , 200 ppm
	Long-term value: 710 mg/m , 150 ppm
TLV	Short-term value: 150 ppm
	Long-term value: 50 ppm

119-61-9 benzophenone

WEEL	Long-term value: 0.5 mg/m
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110-19-0 isobutyl acetate

PEL	Long-term value: 700 mg/m , 150 ppm
REL	Long-term value: 700 mg/m , 150 ppm
TLV	Short-term value: 150 ppm
	Long-term value: 50 ppm

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m
	*resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m
	*respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m
	*respirable particulate matter, A2

108-31-6 maleic anhydride

PEL	Long-term value: 1 mg/m , 0.25 ppm
REL	Long-term value: 1 mg/m , 0.25 ppm
TLV	Long-term value: 0.01* mg/m
	DSEN, RSEN; *inh. fraction + vapor, A4

· **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the skin.
 - Avoid contact with the eyes and skin.

- **Breathing equipment:**

- Short term filter device:



Filter A

Suitable respiratory protective device recommended.

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· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value:**

Mixture is non-polar/aprotic.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

117.2 °C (243 °F)

· **Flash point:**

49 °C (120.2 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

>370 °C (>698 °F)

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

· **Lower:**

1.2 Vol %

· **Upper:**

10.5 Vol %

· **Vapor pressure at 25 °C (77 °F):**

0 hPa

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· Density (+/- 0,03) at 20 °C (68 °F):	1.133 g/cm (9.455 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	38 s (ISO 6 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	10.56 % 119.6 g/l / 1.00 lb/gal	
· Solids content:	89.4 %	
· Other information (HAPS)		
1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%
100-41-4	ethylbenzene	<0.1%
108-31-6	maleic anhydride	≥0.001-<0.1%
123-31-9	1,4-dihydroxybenzene	<0.01%
· Other information	No further relevant information available.	

10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, alkalis and oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	56,467 mg/kg (mouse)
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57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate

Oral	LD50	3,530 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)

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55818-57-0 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)

13048-33-4 hexamethylene diacrylate

Oral	LD50	5,001 mg/kg (mouse)
Dermal	LD50	3,601 mg/kg (rab)

123-86-4 n-butyl acetate

Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.1 mg/l (mouse)

111497-86-0 Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl acrylate and N-ethylethanamine

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

119-61-9 benzophenone

Oral	LD50	2,985 mg/kg (mouse)
Dermal	LD50	3,535 mg/kg (rabbit)

7473-98-5 2-hydroxy-2-methylpropiophenone

Oral	LD50	1,694 mg/kg (mouse)
Dermal	LD50	6,929 mg/kg (mouse)

110-19-0 isobutyl acetate

Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	6,801 mg/kg (mouse)
Dermal	LD50	3,401 mg/kg (rab)
Inhalative	LC50/4 h	20.1 mg/l (mouse)

162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

108-31-6 maleic anhydride

Oral	LD50	1,090 mg/kg (mouse)
Dermal	LD50	2,620 mg/kg (rabbit)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye:

- Strong caustic effect.

- Strong irritant with the danger of severe eye injury.

- Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

Irritant

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause cancer. Route of exposure: Inhalation.

May cause damage to the kidneys and the liver through prolonged or repeated exposure. Route

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of exposure: Oral.

· **Carcinogenic categories**

Quartz.

No significant exposure to quartz is thought to occur during the use of products in which quartz is bound to other materials, such as resin, and for quantities present in the formula

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

Evaluation

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

119-61-9	benzophenone	2B
14808-60-7	Quartz (SiO ₂)	1
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	≥0.1-<0.5%
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity** Toxic to aquatic life with long lasting effects.

· **Aquatic toxicity:****57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate**

EC50	16.7 mg/l (algae) (72 h)
	22.3 mg/l (daphnia) (48 h)
	2.2 mg/l (Fish) (96 h)

55818-57-0 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

EC50	105 mg/l (algae) (72h)
	101 mg/l (daphnia) (48h)
LC50 (96h)	101 mg/l (Fish)

13048-33-4 hexamethylene diacrylate

EC50	1.5 mg/l (algae) (72 h)
LC50 48h	2.6 mg/l (daphnia)
LC50 (96h)	10 mg/l (Fish)

123-86-4 n-butyl acetate

EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)

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LC50 (96h)	18 mg/l (Fish)
111497-86-0 Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl acrylate and N-ethylethanamine	
EC50	101 mg/l (algae) (72 h) 101 mg/l (daphnia) (48 h)
LC50 (96h)	101 mg/l (Leuciscus idus melanotus)
119-61-9 benzophenone	
EC50	3.5 mg/l (algae) (72 h) 6,784 mg/l (daphnia) (48 h)
LC50 (96h)	15.3 mg/l (Fish)
7473-98-5 2-hydroxy-2-methylpropiophenone	
EC50	119 mg/l (daphnia) (48h)
LC50 (96h)	160 mg/l (Fish)
110-19-0 isobutyl acetate	
EC50	370 mg/l (algae) (72 h) 25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
64742-95-6 Solvent naphtha (petroleum), light arom.	
EC50	1 mg/l (algae) (72 h) 1 mg/l (daphnia) (48 h)
LC50 (96h)	1 mg/l (Fish)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
EC50	1,175 mg/l (daphnia) 48h
108-31-6 maleic anhydride	
EC50	29 mg/l (algae) (72 h) 42.8 mg/l (daphnia) (48 h)
LC50 (96h)	75 mg/l (Fish)

· **Persistence and degradability** No further relevant information available.

· **Substances Easily biodegradable**

57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate	.
13048-33-4	hexamethylene diacrylate	.
123-86-4	n-butyl acetate	.
110-19-0	isobutyl acetate	.

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

· **Ecotoxic effects:**

- **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· DOT, IMDG, IATA

UN1263

· Note

Check viscosity and flash point at section 9

· **UN proper shipping name**

· DOT

Paint

· IMDG

PAINT, MARINE POLLUTANT

· IATA

PAINT

· **Transport hazard class(es)**

· DOT



· Class

3 Flammable liquids

· Label

3

· Class

3 Flammable liquids

· Label

3

· IMDG



· Class

3 Flammable liquids

· Label

3

· IATA



· Class

3 Flammable liquids

· Label

3

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Product number TUM1A484
Trade name: UV R/C 20SHN SILVER POWER T/C

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· Packing group	III
· DOT, IMDG, IATA	
· Environmental hazards:	Product contains environmentally hazardous substances: hexamethylene diacrylate
· Marine pollutant:	Yes Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E, S-E
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Remarks:	Special marking with the symbol (fish and tree).
· Remarks:	> 450 l: 3 F1, III
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	> 30 l: 3, III
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Various regulations**
- **SARA**

· Section 355 (extremely hazardous substances):		
123-31-9	1,4-dihydroxybenzene	<0.01%
· Section 313 (Specific toxic chemical listings) :		
1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%
110-82-7	cyclohexane	<0.025%
100-41-4	ethylbenzene	<0.1%
108-31-6	maleic anhydride	≥0.001-<0.1%
123-31-9	1,4-dihydroxybenzene	<0.01%
25154-52-3	nonylphenol	<0.01%
1338-02-9	Naphthenic acids, copper salts	<0.01%

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Safety Data Sheet

acc. to OSHA HCS

Printing date 09/14/2022

Version number 1

Reviewed on 09/14/2022

Product number TUM1A484**Trade name: UV R/C 20SHN SILVER POWER T/C**

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142-71-2	copper di(acetate)	<0.01%
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· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

1330-20-7	xylene
79-10-7	acrylic acid
100-41-4	ethylbenzene
108-31-6	maleic anhydride
123-31-9	1,4-dihydroxybenzene

· **Proposition 65**

· **Chemicals known to cause cancer:**

Quartz (SiO₂) only in bound form

119-61-9	benzophenone	*	2.5-<10%
14808-60-7	Quartz (SiO ₂)	*	≥0.1-<0.5%
100-41-4	ethylbenzene	*	<0.1%

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I	<0.1%
110-82-7	cyclohexane	I	<0.025%
100-41-4	ethylbenzene	D	<0.1%

· **TLV (Threshold Limit Value)**

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
14808-60-7	Quartz (SiO ₂)	A2
1330-20-7	xylene	A4
79-10-7	acrylic acid	A4
100-41-4	ethylbenzene	A3
108-31-6	maleic anhydride	A4
123-31-9	1,4-dihydroxybenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO ₂)	≥0.1-<0.5%
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· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

US

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** IVM Chemicals Srl
 - **Contact:** See emergency phone
 - **Date of preparation / last revision** 09/14/2022 / -
 - **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - NIOSH: National Institute for Occupational Safety
 - OSHA: Occupational Safety & Health
 - TLV: Threshold Limit Value
 - PEL: Permissible Exposure Limit
 - REL: Recommended Exposure Limit
 - Flammable Liquids 2: Flammable liquids . Category 2
 - Flammable Liquids 3: Flammable liquids . Category 3
 - Acute Toxicity - Oral 4: Acute toxicity . Category 4
 - Skin Corrosion 1B: Skin corrosion/irritation . Category 1B
 - Skin Irritation 2: Skin corrosion/irritation . Category 2
 - Eye Damage 1: Serious eye damage/eye irritation . Category 1
 - Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A
 - Sensitization - Respiratory 1: Respiratory sensitisation . Category 1
 - Sensitization - Skin 1: Skin sensitisation . Category 1
 - Sensitization - Skin 1A: Skin sensitisation . Category 1A
 - Sensitization - Skin 1B: Skin sensitisation . Category 1B
 - Carcinogenicity 1A: Carcinogenicity . Category 1A
 - Carcinogenicity 2: Carcinogenicity . Category 2
 - Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) . Category 3
 - Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) . Category 2
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1
 - Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard . Category 2
 - Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard . Category 3
 - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard . Category 2
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3
 - Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard . Category 4
 - **Sources**
 - REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments
 - Agency ECHA web site
 - INRS Fiche Toxicologique
 - IARC International agency for research on cancer
- * **Data compared to the previous version altered.**