

1 Identification

- **Product identifier**

- **Product number** TUM7A113

- **Trade name:** UV V/C CLEAR SATIN SELF-SEALER

- **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**

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Carcinogenicity 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2

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

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very 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**



GHS07 GHS08 GHS09

- **Signal word** Warning

- **Hazard-determining components of labeling:**

- hexamethylene diacrylate

- benzophenone

- Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol

- Glycerol, propoxylated, esters with acrylic acid

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

- **Hazard statements**

- H315 Causes skin irritation.

- H319 Causes serious eye irritation.

- H317 May cause an allergic skin reaction.

- H351 Suspected of causing cancer.

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

- H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

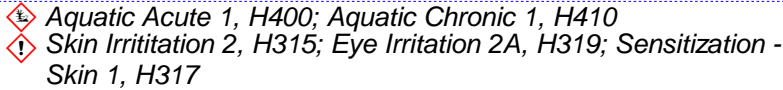
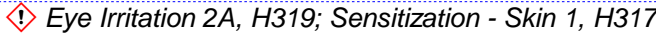
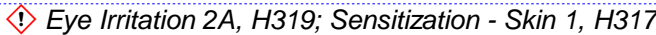
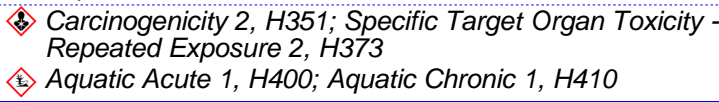
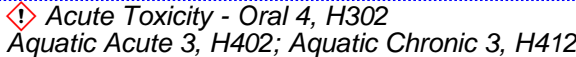
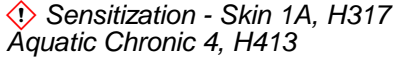
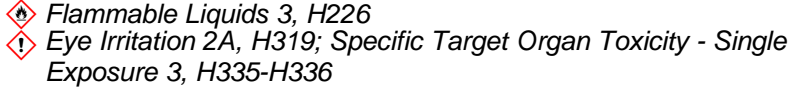
Classification system:**NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)**

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:

13048-33-4	hexamethylene diacrylate 	50-100%
162492-04-8	Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol 	15-19.99%
52408-84-1	Glycerol, propoxylated, esters with acrylic acid 	≥10-<20%
119-61-9	benzophenone 	≥0.25-<2.5%
7473-98-5	2-hydroxy-2-methylpropiophenone 	<2.5%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 	≥0.5-<1%
78-92-2	butanol 	<0.5%


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142-16-5 Bis(2-ethylhexyl) maleate

≥0.025-<0.25%


 Specific Target Organ Toxicity - Repeated Exposure 2, H373
 Aquatic Chronic 1, H410

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.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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.

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6 Accidental release measures

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

Mount respiratory protective device.

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).

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-1:**

13048-33-4	hexamethylene diacrylate	3 mg/m
7631-86-9	silicon dioxide, chemically prepared	18 mg/m
119-61-9	benzophenone	1.5 mg/m
78-92-2	butanol	150 ppm
546-93-0	Magnesite	45 mg/m

- **PAC-2:**

13048-33-4	hexamethylene diacrylate	170 mg/m
7631-86-9	silicon dioxide, chemically prepared	740 mg/m
119-61-9	benzophenone	90 mg/m
78-92-2	butanol	220 ppm
546-93-0	Magnesite	260 mg/m

- **PAC-3:**

13048-33-4	hexamethylene diacrylate	990 mg/m
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m
119-61-9	benzophenone	310 mg/m
78-92-2	butanol	10000** ppm
546-93-0	Magnesite	1,600 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.

Keep respiratory protective device available.

- **Information about protection against explosions and fires:**

Keep respiratory protective device available.

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· Conditions for safe storage, including any incompatibilities
· Storage:
· Requirements to be met by storerooms and receptacles:

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.

13048-33-4 hexamethylene diacrylate

WEEL	Long-term value: 1 mg/m
	DSEN

119-61-9 benzophenone

WEEL	Long-term value: 0.5 mg/m
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78-92-2 butanol

PEL	Long-term value: 450 mg/m , 150 ppm
REL	Short-term value: 455 mg/m , 150 ppm
	Long-term value: 305 mg/m , 100 ppm
TLV	Long-term value: 100 ppm

· 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 eyes and skin.

· Breathing equipment:

Short term filter device:



Suitable respiratory protective device recommended.

Filter A

· Protection of hands:


Protective gloves

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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:**

250 °C (482 °F)

- **Flash point:**

100 °C (212 °F)

- **Flammability (solid, gaseous):**

Not applicable.

- **Ignition temperature:**

235 °C (455 °F)

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Product is not selfigniting.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

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

0 hPa

- **Density (+/- 0,03) at 20 °C (68 °F):**

1.218 g/cm (10.164 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.

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- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

- **Dynamic:** Not determined.

- **Kinematic at 20 °C (68 °F):** 30 s (ISO 6 mm)

- **Oxidising properties:** N.A.

- **Solvent content:**

- **Water:** 0.1 %

- **VOC content:** 0.54 %

6.6 g/l / 0.06 lb/gal

- **Solids content:** 99.2 %

- **Other information (HAPS)**

1330-20-7	xylene	<0.1%
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79-10-7	acrylic acid	<0.1%
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100-41-4	ethylbenzene	<0.1%
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- **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	84,700 mg/kg (mouse)
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13048-33-4 hexamethylene diacrylate

Oral	LD50	5,001 mg/kg (mouse)
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Dermal	LD50	3,601 mg/kg (rab)
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119-61-9 benzophenone

Oral	LD50	2,985 mg/kg (mouse)
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Dermal	LD50	3,535 mg/kg (rabbit)
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7473-98-5 2-hydroxy-2-methylpropiofenone

Oral	LD50	1,694 mg/kg (mouse)
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Dermal	LD50	6,929 mg/kg (mouse)
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24650-42-8 2,2-dimethoxy-1,2-diphenylethan-1-one

Oral	LD50	1,470 mg/kg (mouse)
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Dermal	LD50	7,101 mg/kg (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)
78-92-2 butanol		
Oral	LD50	6,480 mg/kg (mouse)

- **Primary irritant effect:**
 - *on the skin:* Irritant to skin and mucous membranes.
 - *on the eye:* Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

Irritant
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 May cause damage to the kidneys and the liver through prolonged or repeated exposure. Route 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%
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

- **Toxicity** Very toxic to aquatic life with long lasting effects.

· Aquatic toxicity:	
13048-33-4 hexamethylene diacrylate	
EC50	1.5 mg/l (algae) (72 h)

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LC50 48h	2.6 mg/l (daphnia)
LC50 (96h)	10 mg/l (Fish)
52408-84-1 Glycerol, propoxylated, esters with acrylic acid	
EC50	12.2 mg/l (algae) (72 h) 91.4 mg/l (daphnia) (48 h)
LC50 (96h)	5.74 mg/l (Fish)
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)
24650-42-8 2,2-dimethoxy-1,2-diphenylethan-1-one	
EC50	20 mg/l (algae) (72 h) 18 mg/l (daphnia) (48 h)
LC50 (96h)	30 mg/l (Fish)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
EC50	1,175 mg/l (daphnia) 48h

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

- **Substances Easily biodegradable**

13048-33-4	hexamethylene diacrylate	.
52408-84-1	Glycerol, propoxylated, esters with acrylic acid	.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

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

- **Ecotoxicological effects:**

- **Remark:** Very 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.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- **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.

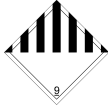

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- **Uncleaned packagings:**
- *Recommendation: Disposal must be made according to official regulations.*

14 Transport information

· UN-Number	UN3082
· <i>DOT, IMDG, IATA</i>	
· <i>Note</i>	Check viscosity and flash point at section 9
· UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
· <i>DOT</i>	
· <i>IMDG</i>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, benzophenone, Bis(2-ethylhexyl) maleate), MARINE POLLUTANT
· <i>IATA</i>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate)
· Transport hazard class(es)	
· <i>DOT, IMDG, IATA</i>	
 	
· <i>Class</i>	9 Miscellaneous dangerous substances and articles
· <i>Label</i>	9
· <i>Class</i>	9 Miscellaneous dangerous substances and articles
· <i>Label</i>	9
· Packing group	III
· <i>DOT, IMDG, IATA</i>	
· Environmental hazards:	Product contains environmentally hazardous substances:
· <i>Marine pollutant:</i>	Yes
	Symbol (fish and tree)
· <i>Special marking (IATA):</i>	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· <i>Hazard identification number (Kemler code):</i>	90
· <i>EMS Number:</i>	F-A, S-F
· <i>Stowage Category</i>	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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· Transport/Additional information:**· DOT****· Remarks:**

Special marking with the symbol (fish and tree).

· 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

· UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIACRYLATE), 9, III

15 Regulatory information**· Safety, health and environmental regulations/legislation specific for the substance or mixture****· Various regulations****· SARA****· Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings) :

78-92-2	butanol	<0.5%
1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%
110-82-7	cyclohexane	≥0.025-<0.1%
100-41-4	ethylbenzene	<0.1%
71-36-3	butan-1-ol	<0.1%

· 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

· Proposition 65**· Chemicals known to cause cancer:**Quartz (SiO₂) only in bound form

119-61-9	benzophenone	*	≥0.25-<2.5%
14808-60-7	Quartz (SiO ₂)	*	<0.1%
100-41-4	ethylbenzene	*	<0.1%

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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 · **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-<0.1%
100-41-4	ethylbenzene	D	<0.1%
71-36-3	butan-1-ol	D	<0.1%

 · **TLV (Threshold Limit Value)**

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
1330-20-7	xylene	A4
14808-60-7	Quartz (SiO ₂)	A2
79-10-7	acrylic acid	A4
100-41-4	ethylbenzene	A3

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

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

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

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

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 / 3

 · **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 3: Flammable liquids . Category 3
 Acute Toxicity - Oral 4: Acute toxicity . Category 4
 Skin Irritation 2: Skin corrosion/irritation . Category 2
 Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A
 Sensitization - Skin 1: Skin sensitisation . Category 1
 Sensitization - Skin 1A: Skin sensitisation . Category 1A
 Carcinogenicity 2: Carcinogenicity . Category 2

(Contd. on page 13)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/14/2022

Version number 4

Reviewed on 09/14/2022

Product number TUM7A113**Trade name: UV V/C CLEAR SATIN SELF-SEALER**

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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 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 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.**

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