

## 1 Identification

- **Product identifier**
  - *Product number* TE616
  - *Trade name:* **CLEAR MATT TOPC. OPEN PORE**
    - *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 Damage 1	H318 Causes serious eye damage.
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*



GHS05 GHS07 GHS08 GHS09

- *Signal word* Danger

- *Hazard-determining components of labeling:*

hexamethylene diacrylate  
oxybis(methyl-2, 1-ethanediyl) diacrylate  
benzophenone  
Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol  
Glycerol, propoxylated, esters with acrylic acid

- *Hazard statements*

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
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.  
 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.

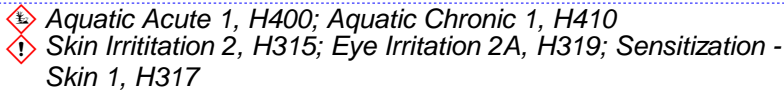
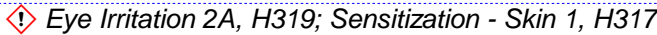
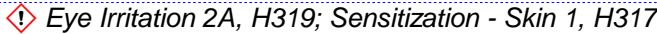
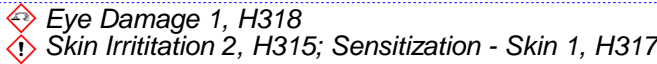
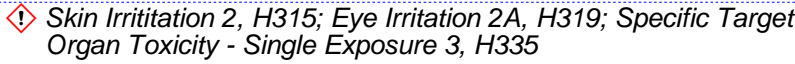
**Classification system:****NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)**

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

Description: Mixture: consisting of the following components.

**Dangerous components:**

13048-33-4	hexamethylene diacrylate 	≥25-<50%
162492-04-8	Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol 	10-12.49%
52408-84-1	Glycerol, propoxylated, esters with acrylic acid 	≥1-<10%
57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate 	5-9.99%
162492-04-8	Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol 	5-9.99%

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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%
1330-61-6	isodecyl acrylate ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Acute 2, H401	2.5-4.99%
108-65-6	2-methoxy-1-methylethyl acetate ⚠ Flammable Liquids 3, H226 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	<0.5%
110-19-0	isobutyl acetate ⚠ Flammable Liquids 2, H225 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	<0.5%
142-16-5	Bis(2-ethylhexyl) maleate ⚠ Specific Target Organ Toxicity - Repeated Exposure 2, H373 ⚠ Aquatic Chronic 1, H410	≥0.025-<0.25%

#### 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:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **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<sub>x</sub>)  
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-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
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
110-19-0	isobutyl acetate	450 ppm
9002-88-4	Polyethylene low density	16 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
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
110-19-0	isobutyl acetate	1300* ppm
9002-88-4	Polyethylene low density	170 mg/m

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· 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
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
110-19-0	isobutyl acetate	7500** ppm
9002-88-4	Polyethylene low density	1,000 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.

### · 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.

<b>13048-33-4 hexamethylene diacrylate</b>	
WEEL	Long-term value: 1 mg/m
	DSEN
<b>119-61-9 benzophenone</b>	
WEEL	Long-term value: 0.5 mg/m
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEEL	Long-term value: 50 ppm
<b>110-19-0 isobutyl acetate</b>	
PEL	Long-term value: 700 mg/m , 150 ppm
REL	Long-term value: 700 mg/m , 150 ppm

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TLV	Short-term value: 150 ppm Long-term value: 50 ppm
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· **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:



Suitable respiratory protective device recommended.

Filter A

· **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.

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· <i>pH-value:</i>	Mixture is non-polar/aprotic.
· <i>Change in condition</i>	
· <i>Melting point/Melting range:</i>	Undetermined.
· <i>Boiling point/Boiling range:</i>	256 °C (492.8 °F)
· <i>Flash point:</i>	100 °C (212 °F)
· <i>Flammability (solid, gaseous):</i>	Not applicable.
· <i>Ignition temperature:</i>	>370 °C (>698 °F)
· <i>Decomposition temperature:</i>	Not determined.
· <i>Auto igniting:</i>	Product is not selfigniting.
· <i>Danger of explosion:</i>	Product does not present an explosion hazard.
· <i>Explosion limits:</i>	
· <i>Lower:</i>	Not determined.
· <i>Upper:</i>	Not determined.
· <i>Vapor pressure at 25 °C (77 °F):</i>	0 hPa
· <i>Density (+/- 0,03) at 20 °C (68 °F):</i>	1.191 g/cm (9.939 lbs/gal)
· <i>Relative density</i>	Not determined.
· <i>Vapor density</i>	Not determined.
· <i>Evaporation rate</i>	Not determined.
· <i>Solubility in / Miscibility with</i>	
· <i>Water:</i>	Not miscible or difficult to mix.
· <i>Partition coefficient (n-octanol/water):</i>	Not determined.
· <i>Viscosity:</i>	
· <i>Dynamic:</i>	Not determined.
· <i>Kinematic at 20 °C (68 °F):</i>	40 s (ISO 4 mm)
· <i>Oxidising properties:</i>	N.A.
· <i>Solvent content:</i>	
· <i>VOC content:</i>	1.08 % 12.8 g/l / 0.11 lb/gal
· <i>Solids content:</i>	98.9 %
· <b>Other information (HAPS)</b>	
79-10-7 acrylic acid	<0.1%
· <i>Other information</i>	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

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· **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:

#### 13048-33-4 hexamethylene diacrylate

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

#### 57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate

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

#### 119-61-9 benzophenone

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

#### 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	35.7 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)

#### 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)

#### · 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.

Suspected of causing cancer.

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

#### · Carcinogenic categories

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

119-61-9	benzophenone	2B
140-11-4	benzyl acetate	3
91-64-5	Coumarin	3

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **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)

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)

### 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)

### 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)

### 108-65-6 2-methoxy-1-methylethyl acetate

EC50 1,001 mg/l (algae) (72 h)

501 mg/l (daphnia) (48 h)

LC50 (96h) 134 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)

### 110-19-0 isobutyl acetate

EC50 370 mg/l (algae) (72 h)

25 mg/l (daphnia)

LC50 (96h) 17 mg/l (Fish)

· **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 .

57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate .

· **Behavior in environmental systems:**

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

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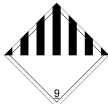

- *Mobility in soil* No further relevant information available.
- **Ecotoxicological effects:**
  - *Remark:* Very toxic for fish
- **Additional ecological information:**
  - *General notes:*
    - Water hazard class 2 (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - 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.
    - 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.
- **Uncleaned packagings:**
  - *Recommendation:* Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
  - *DOT, IMDG, IATA* UN3082
  - *Note* Check viscosity and flash point at section 9
- **UN proper shipping name**
  - *DOT* Environmentally hazardous substance, liquid, n.o.s. (benzophenone)
  - *IMDG* ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, benzophenone, isodecyl acrylate, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
  - *IATA* ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, benzophenone)
- **Transport hazard class(es)**
  - *DOT, IMDG, IATA*

    - *Class* 9 Miscellaneous dangerous substances and articles
    - *Label* 9

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· <i>Class</i>	9 Miscellaneous dangerous substances and articles
· <i>Label</i>	9
· <b>Packing group</b>	
· <i>DOT, IMDG, IATA</i>	III
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances:
· <i>Marine pollutant:</i>	Yes
· <i>Special marking (IATA):</i>	Symbol (fish and tree)
· <b>Special precautions for user</b>	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
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <i>DOT</i>	
· <i>Remarks:</i>	Special marking with the symbol (fish and tree).
· <i>IMDG</i>	
· <i>Limited quantities (LQ)</i>	5L
· <i>Excepted quantities (EQ)</i>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIACRYLATE, BENZOPHENONE), 9, III

## 15 Regulatory information

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

Requirements of Federal Register

#### · Various regulations

· SARA

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### · Section 313 (Specific toxic chemical listings) :

79-10-7	acrylic acid	<0.1%
110-82-7	cyclohexane	≥0.025-<0.1%
7664-38-2	phosphoric acid	<0.1%

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<b>· TSCA (Toxic Substances Control Act):</b>	
hexamethylene diacrylate	ACTIVE
Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol	ACTIVE
Glycerol, propoxylated, esters with acrylic acid	ACTIVE
oxybis(methyl-2,1-ethanediyl) diacrylate	ACTIVE
Glycerol, propoxylated, esters with acrylic acid, reaction products with 2-aminoethanol	ACTIVE
benzophenone	ACTIVE
isodecyl acrylate	ACTIVE
2-methoxy-1-methylethyl acetate	ACTIVE
isobutyl acetate	ACTIVE
Bis(2-ethylhexyl) maleate	ACTIVE

<b>· Hazardous Air Pollutants</b>	
79-10-7 acrylic acid	

<b>· Proposition 65</b>	
<b>· Chemicals known to cause cancer:</b>	
119-61-9 benzophenone	* 2.5-<10%

<b>· Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	

<b>· Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	

<b>· Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	

<b>· Carcinogenic categories</b>	
<b>· EPA (Environmental Protection Agency)</b>	
110-82-7 cyclohexane	I / $\geq 0.025$ -<0.1%

<b>· TLV (Threshold Limit Value)</b>	
79-10-7 acrylic acid	A4
140-11-4 benzyl acetate	A4

<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	

**· 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** 09/07/2022 / 37
- **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

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**Product number TE616****Trade name: CLEAR MATT TOPC. OPEN PORE**

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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  
 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 - Skin 1: Skin sensitisation . Category 1  
 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 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

• **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.**