

## 1 Identification

- **Product identifier**

- *Product number* TS535
- *Trade name:* **TECHNOFINISH TOP-COAT 15GL**
- *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  
1.3.2 Importer

Name I.C.& S. DISTRIBUTING CO.  
 Address P.O.BOX 10845  
 LANCASTER. PA  
 USA  
 E-Mail: nelson@ics-company.com

- *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.  
 001 813-248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

Flammable Liquids 2	H225	Highly flammable liquid and vapor.
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.
Toxic to Reproduction 2	H361	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure	3H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure 2	H373	May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.
Aquatic Chronic 3	H412	Harmful 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).

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· **Hazard pictograms**



· **Signal word Danger**

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

xylene  
ethylbenzene  
toluene  
ethyl acetate  
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.  
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
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.  
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)**



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### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· *Description:* Mixture: consisting of the following components.

· **Dangerous components:**

141-78-6	ethyl acetate <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 2, H225</li> <li>⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	20-24.99%
1330-20-7	xylene <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 3, H226</li> <li>⚠ Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304</li> <li>⚠ Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335</li> <li>Aquatic Acute 3, H402; Aquatic Chronic 3, H412</li> </ul>	20-24.99%
110-19-0	isobutyl acetate <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 2, H225</li> <li>⚠ Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	10-12.49%
100-41-4	ethylbenzene <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 2, H225</li> <li>⚠ Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304</li> <li>⚠ Acute Toxicity - Inhalation 4, H332</li> <li>Aquatic Chronic 3, H412</li> </ul>	5-9.99%
123-86-4	n-butyl acetate <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 3, H226</li> <li>⚠ Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	2.5-4.99%
108-88-3	toluene <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 2, H225</li> <li>⚠ Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304</li> <li>⚠ Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336</li> <li>Aquatic Chronic 3, H412</li> </ul>	2.5-4.99%
67-63-0	propan-2-ol <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 2, H225</li> <li>⚠ Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	2.5-4.99%
108-65-6	2-methoxy-1-methylethyl acetate <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 3, H226</li> <li>⚠ Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	2.5-4.99%
	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) <ul style="list-style-type: none"> <li>⚠ Aquatic Chronic 2, H411</li> <li>⚠ Sensitization - Skin 1, H317</li> </ul>	≥0.25-<0.5%
64-17-5	ethanol <ul style="list-style-type: none"> <li>⚠ Flammable Liquids 2, H225</li> <li>⚠ Eye Irritation 2A, H319</li> </ul>	<0.5%

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#### 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:**

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 (NOx)

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.

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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:		
141-78-6	ethyl acetate	1,200 ppm
1330-20-7	xylene	130 ppm
110-19-0	isobutyl acetate	450 ppm
100-41-4	ethylbenzene	33 ppm
123-86-4	n-butyl acetate	5 ppm
108-88-3	toluene	67 ppm
67-63-0	propan-2-ol	400 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
9002-88-4	Polyethylene low density	16 mg/m
9002-84-0	Polytetrafluoroethylene	12 mg/m
64-17-5	ethanol	1,800 ppm

• PAC-2:		
141-78-6	ethyl acetate	1,700 ppm
1330-20-7	xylene	920* ppm
110-19-0	isobutyl acetate	1300* ppm
100-41-4	ethylbenzene	1100* ppm
123-86-4	n-butyl acetate	200 ppm
108-88-3	toluene	560 ppm
67-63-0	propan-2-ol	2000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
9002-88-4	Polyethylene low density	170 mg/m
9002-84-0	Polytetrafluoroethylene	130 mg/m
64-17-5	ethanol	3300* ppm

• PAC-3:		
141-78-6	ethyl acetate	10000** ppm
1330-20-7	xylene	2500* ppm
110-19-0	isobutyl acetate	7500** ppm
100-41-4	ethylbenzene	1800* ppm
123-86-4	n-butyl acetate	3000* ppm
108-88-3	toluene	3700* ppm
67-63-0	propan-2-ol	12000** ppm

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108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
9002-88-4	Polyethylene low density	1,000 mg/m
9002-84-0	Polytetrafluoroethylene	790 mg/m
64-17-5	ethanol	15000* ppm

## 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:

Store in a cool, well-ventilated area, away from heat and sources of ignition

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.

Store in cool, dry conditions in well sealed receptacles.

### · 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 remaining constituent has no known exposure limits.

#### 141-78-6 ethyl acetate

PEL Long-term value: 1400 mg/m , 400 ppm

REL Long-term value: 1400 mg/m , 400 ppm

TLV Long-term value: 400 ppm

#### 1330-20-7 xylene

PEL Long-term value: 435 mg/m , 100 ppm

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REL	Short-term value: 655 mg/m , 150 ppm Long-term value: 435 mg/m , 100 ppm
TLV	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4

**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

**100-41-4 ethylbenzene**

PEL	Long-term value: 435 mg/m , 100 ppm
REL	Short-term value: 545 mg/m , 125 ppm Long-term value: 435 mg/m , 100 ppm
TLV	Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3

**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

**108-88-3 toluene**

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m , 150 ppm Long-term value: 375 mg/m , 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4

**67-63-0 propan-2-ol**

PEL	Long-term value: 980 mg/m , 400 ppm
REL	Short-term value: 1225 mg/m , 500 ppm Long-term value: 980 mg/m , 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

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

WEEL	Long-term value: 50 ppm
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**64-17-5 ethanol**

PEL	Long-term value: 1900 mg/m , 1000 ppm
REL	Long-term value: 1900 mg/m , 1000 ppm
TLV	Short-term value: 1000 ppm A3

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· **Ingredients with biological limit values:**

**1330-20-7 xylene**

BEI 1.5 g/g creatinine  
 Medium: urine  
 Time: end of shift  
 Parameter: Methylhippuric acids

**100-41-4 ethylbenzene**

BEI 0.15 g/g creatinine  
 Medium: urine  
 Time: end of shift at end of workweek  
 Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

**108-88-3 toluene**

BEI 0.02 mg/L  
 Medium: blood  
 Time: prior to last shift of workweek  
 Parameter: Toluene

0.03 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Toluene

0.3 mg/g creatinine  
 Medium: urine  
 Time: end of shift  
 Parameter: o-Cresol with hydrolysis (background)

**67-63-0 propan-2-ol**

BEI 40 mg/L  
 Medium: urine  
 Time: end of shift at end of workweek  
 Parameter: Acetone (background, nonspecific)

· **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.
- Pregnant women should strictly avoid inhalation or skin contact.

· **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:**

77 °C (170.6 °F)

· **Flash point:**

-4 °C (24.8 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

315 °C (599 °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 Vol %

· **Upper:**

12 Vol %

· **Vapor pressure at 20 °C (68 °F):**

97 hPa (72.8 mm Hg)

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· <b>Density (+/- 0,03) at 20 °C (68 °F):</b>	0.93 g/cm (7.761 lbs/gal)	
· <b>Relative density</b>	Not determined.	
· <b>Vapor density</b>	Not determined.	
· <b>Evaporation rate</b>	Not determined.	
· <b>Solubility in / Miscibility with</b>		
· <b>Water:</b>	Not miscible or difficult to mix.	
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.	
· <b>Viscosity:</b>		
· <b>Dynamic:</b>	Not determined.	
· <b>Kinematic at 20 °C (68 °F):</b>	25 s (ISO 6 mm)	
· <b>Oxidising properties:</b>	N.A.	
· <b>Solvent content:</b>		
· <b>Water:</b>	0.0 %	
· <b>VOC content:</b>	76.48 % 711.2 g/l / 5.94 lb/gal	
· <b>Solids content:</b>	23.5 %	
· <b>Other information (HAPS)</b>		
1330-20-7	xylene	20-24.99%
100-41-4	ethylbenzene	5-9.99%
108-88-3	toluene	2.5-4.99%
80-62-6	methyl methacrylate	<0.1%
· <b>Other information</b>	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**  
Reacts with oxidizing agents.  
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:**  
  
in case of possible formation of combustion:  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**

### ATE (Acute Toxicity Estimate)

Dermal	LD50	4,927 mg/kg (rabbit)
Inhalative	LC50/4 h	42.6 mg/l (mouse)

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**141-78-6 ethyl acetate**

Oral	LD50	4,934 mg/kg (rabbit)
Dermal	LD50	20,001 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/l (mouse)
	LC0	22.6 ppm (mouse)

**1330-20-7 xylene**

Oral	LD50.	3,523 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rabbit) (ATE value)
	LD50.	12,126 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (mouse) (ATE value)
	LC50/4h.	27.571 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)

**100-41-4 ethylbenzene**

Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (mouse)

**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)

**108-88-3 toluene**

Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	25.7 mg/l (mouse)

**67-63-0 propan-2-ol**

Oral	LD50	4,710 mg/kg (mouse)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	72.6 mg/l (mouse)

**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)

**Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)**

Oral	LD50	5,001 mg/kg (mouse) (OECD - 401)
Dermal	LD50	2,001 mg/kg (mouse) (OECD - 402)

**68299-15-0 bis(neodecanoyloxy)dioctylstannane**

Oral	LD50	2,300 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

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Inhalative	LC50/6 h	101 ppm (Fish)
<b>64-17-5 ethanol</b>		
Oral	LD50	10,470 mg/kg (mouse)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	124.7 mg/l (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.
  - Suspected of damaging fertility or the unborn child.
  - May cause respiratory irritation.
  - May cause drowsiness or dizziness.
  - May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral and Inhalation.

- **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.

· <b>IARC (International Agency for Research on Cancer - Cl. 1 and 2)</b>		
100-41-4	ethylbenzene	2B
64-17-5	ethanol	1 in alcoholic beverages
14808-60-7	Quartz (SiO <sub>2</sub> )	1

· <b>NTP (National Toxicology Program)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	<0.01%

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

## 12 Ecological information

- **Toxicity** Harmful to aquatic life with long lasting effects.

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<i>· Aquatic toxicity:</i>	
<b>141-78-6 ethyl acetate</b>	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
<b>1330-20-7 xylene</b>	
EC50	2.2 mg/l (algae)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
<b>110-19-0 isobutyl acetate</b>	
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
<b>100-41-4 ethylbenzene</b>	
EC50	438 mg/l (algae) (72h)
	1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
<b>123-86-4 n-butyl acetate</b>	
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
<b>108-88-3 toluene</b>	
EC50	134 mg/l (algae) (96 h)
	3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)
<b>67-63-0 propan-2-ol</b>	
EC50	1,001 mg/l (algae) (72 h)
	10,000 mg/l (daphnia) (24 h)
LC50 (96h)	9,640 mg/l (Fish)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EC50	1,001 mg/l (algae) (72 h)
	501 mg/l (daphnia) (48 h)
LC50 (96h)	134 mg/l (Fish)
<b>Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)</b>	
EC50	101 mg/l (algae) (72h)
	4 mg/l (daphnia) (OECD linee guida 202 parte 1)
LC50 (96h)	2.8 mg/l (Leuciscus idus melanotus) (OECD linee guida 203)
<b>68299-15-0 bis(neodecanoyloxy)dioctylstannane</b>	
EC50	101 mg/l (algae) (72h)
	24.12 mg/l (daphnia) (48h)
<b>64-17-5 ethanol</b>	
EC50	5,012 mg/l (daphnia) (48 h)

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LC50 (96h)	15.3 mg/l (Fish)
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- **Persistence and degradability** No further relevant information available.

- **Substances Easily biodegradable**

141-78-6	ethyl acetate	.
1330-20-7	xylene	.
110-19-0	isobutyl acetate	.
100-41-4	ethylbenzene	.
123-86-4	n-butyl acetate	.
108-88-3	toluene	.
67-63-0	propan-2-ol	.
108-65-6	2-methoxy-1-methylethyl acetate	.

- **Behavior in environmental systems:**

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

- **Ecotoxicological effects:**

- **Remark:** Harmful to 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.  
 Harmful to 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

UN1263

- Note

Check viscosity and flash point at section 9

- **UN proper shipping name**

- DOT

Paint

- IMDG, IATA

PAINT

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**Product number TS535**  
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· **Transport hazard class(es)**

· **DOT**



- **Class** 3 Flammable liquids
- **Label** 3
- **Class** 3 Flammable liquids
- **Label** 3

· **IMDG, IATA**



- **Class** 3 Flammable liquids
- **Label** 3

· **Packing group**

- **DOT, IMDG, IATA** II

· **Environmental hazards:**

- **Marine pollutant:** No

· **Special precautions for user**

Warning: Flammable liquids

- **Hazard identification number (Kemler code):** 33
- **EMS Number:** F-E, S-E
- **Stowage Category** B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **IMDG**

- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1263 PAINT, 3, II

**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.

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· Section 313 (Specific toxic chemical listings) :		
1330-20-7	xylene	20-24.99%
100-41-4	ethylbenzene	5-9.99%
108-88-3	toluene	2.5-4.99%
67-63-0	propan-2-ol	2.5-4.99%
80-62-6	methyl methacrylate	<0.1%

· TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		

· Hazardous Air Pollutants		
1330-20-7	xylene	
100-41-4	ethylbenzene	
108-88-3	toluene	
80-62-6	methyl methacrylate	

· Proposition 65		
· Chemicals known to cause cancer:		
100-41-4	ethylbenzene	* 5-9.99%
14808-60-7	Quartz (SiO <sub>2</sub> )	* <0.01%

· Chemicals known to cause reproductive toxicity for females:		
70657-70-4	2-methoxypropyl acetate	<0.01%

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

· Chemicals known to cause developmental toxicity:		
108-88-3	toluene	2.5-4.99%

· Carcinogenic categories			
· EPA (Environmental Protection Agency)			
1330-20-7	xylene	I	20-24.99%
100-41-4	ethylbenzene	D	5-9.99%
108-88-3	toluene	II	2.5-4.99%
80-62-6	methyl methacrylate	E, NL	<0.1%
78-93-3	butanone	I	<0.01%

· TLV (Threshold Limit Value)		
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
67-63-0	propan-2-ol	A4
64-17-5	ethanol	A3
80-62-6	methyl methacrylate	A4
14808-60-7	Quartz (SiO <sub>2</sub> )	A2

· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO <sub>2</sub> )	<0.01%

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

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· **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 / 114
  - **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
    - BEI: Biological Exposure Limit
    - Flammable Liquids 2: Flammable liquids . Category 2
    - Flammable Liquids 3: Flammable liquids . Category 3
    - Acute Toxicity - Dermal 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
    - Carcinogenicity 2: Carcinogenicity . Category 2
    - Toxic to Reproduction 2: Reproductive toxicity . 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
    - Aspiration Hazard 1: Aspiration hazard . Category 1
    - Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard . Category 3
    - 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
- **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.**