ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/07/2022 Version number 31 Reviewed on 09/07/2022

1 Identification

· **Product identifier**
· **Product number** TC11
· **Trade name: CLEAR PARAFFIN PE**
· **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.

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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 1B	H350	May cause cancer.
Toxic to Reproduction 2	H361	Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 1	H372-H373	Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation. May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral.
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).
· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
styrene
maleic anhydride
toluene
xylene

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· **Hazard statements**

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372-H373	Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation. May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral.
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)**

Health = 2
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *2
Fire = 3
Reactivity = 0

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

100-42-5	styrene Flammable Liquids 3, H226 Carcinogenicity 1B, H350; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 1, H372 Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319 Aquatic Chronic 3, H412	40-49.99%
108-88-3	toluene Flammable Liquids 2, H225 Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412	1-2.49%

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57-55-6	propane-1,2-diol	1-2.49%
1330-20-7	xylene Flammable Liquids 3, H226 Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 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 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	1-2.49%
67-56-1	methanol Flammable Liquids 2, H225 Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331 Specific Target Organ Toxicity - Single Exposure 1, H370	0.5-1%
110-19-0	isobutyl acetate Flammable Liquids 2, H225 Specific Target Organ Toxicity - Single Exposure 3, H336	<0.5%
100-41-4	ethylbenzene Flammable Liquids 2, H225 Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Acute Toxicity - Inhalation 4, H332 Aquatic Chronic 3, H412	≥0.1-<0.5%
123-86-4	n-butyl acetate Flammable Liquids 3, H226 Specific Target Organ Toxicity - Single Exposure 3, H336	<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.

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· **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.

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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).
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:**		
100-42-5	styrene	20 ppm
108-88-3	toluene	67 ppm
57-55-6	propane-1,2-diol	30 mg/mį

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1330-20-7	xylene	130 ppm
67-56-1	methanol	530 ppm
110-19-0	isobutyl acetate	450 ppm
100-41-4	ethylbenzene	33 ppm
123-86-4	n-butyl acetate	5 ppm

· **PAC-2:**

100-42-5	styrene	130 ppm
108-88-3	toluene	560 ppm
57-55-6	propane-1,2-diol	1,300 mg/mį
1330-20-7	xylene	920* ppm
67-56-1	methanol	2,100 ppm
110-19-0	isobutyl acetate	1300* ppm
100-41-4	ethylbenzene	1100* ppm
123-86-4	n-butyl acetate	200 ppm

· **PAC-3:**

100-42-5	styrene	1100* ppm
108-88-3	toluene	3700* ppm
57-55-6	propane-1,2-diol	7,900 mg/mį
1330-20-7	xylene	2500* ppm
67-56-1	methanol	7200* ppm
110-19-0	isobutyl acetate	7500** ppm
100-41-4	ethylbenzene	1800* ppm
123-86-4	n-butyl acetate	3000* 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.

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· ***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.*

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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:	
100-42-5 styrene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
REL	Short-term value: 425 mg/mį, 100 ppm Long-term value: 215 mg/mį, 50 ppm
TLV	Short-term value: 20 ppm Long-term value: 10 ppm BEI, OTO, A3
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/mį, 150 ppm Long-term value: 375 mg/mį, 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4
57-55-6 propane-1,2-diol	
WEEL	Long-term value: 10 mg/mį
1330-20-7 xylene	
PEL	Long-term value: 435 mg/mį, 100 ppm
REL	Short-term value: 655 mg/mį, 150 ppm Long-term value: 435 mg/mį, 100 ppm
TLV	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4
67-56-1 methanol	
PEL	Long-term value: 260 mg/mį, 200 ppm
REL	Short-term value: 325 mg/mį, 250 ppm Long-term value: 260 mg/mį, 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
110-19-0 isobutyl acetate	
PEL	Long-term value: 700 mg/mį, 150 ppm
REL	Long-term value: 700 mg/mį, 150 ppm

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TLV	Short-term value: 150 ppm Long-term value: 50 ppm
100-41-4 ethylbenzene	
PEL	Long-term value: 435 mg/mį, 100 ppm
REL	Short-term value: 545 mg/mį, 125 ppm Long-term value: 435 mg/mį, 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/mį, 150 ppm
REL	Short-term value: 950 mg/mį, 200 ppm Long-term value: 710 mg/mį, 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm
108-31-6 maleic anhydride	
PEL	Long-term value: 1 mg/mį, 0.25 ppm
REL	Long-term value: 1 mg/mį, 0.25 ppm
TLV	Long-term value: 0.01* mg/mį DSEN, RSEN;*inh. fraction + vapor, A4

· **Ingredients with biological limit values:**

100-42-5 styrene	
BEI	400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific) 40 ɛg/L Medium: urine Time: end of shift Parameter: Styrene
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)
1330-20-7 xylene	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

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67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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)

· **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:

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

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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:**	110-111 °C (230-231.8 °F)
· **Flash point:**	4 °C (39.2 °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:**	1.1 Vol %
· **Upper:**	12.6 Vol %
· **Vapor pressure at 20 °C (68 °F):**	29 hPa (21.8 mm Hg)
· **Density (+/- 0,03) at 20 °C (68 °F):**	0.99 g/cmį (8.262 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):**	101 s (ISO 6 mm)
· **Oxidising properties:**	N.A.
· **Solvent content:**	
· **Water:**	0.0 %
· **VOC content:**	53.49 % 529.5 g/l / 4.42 lb/gal
· **Solids content:**	93.7 %

· **Other information (HAPS)**

100-42-5	styrene	40-49.99%
108-88-3	toluene	1-2.49%
1330-20-7	xylene	1-2.49%
67-56-1	methanol	0.5-1%

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100-41-4	ethylbenzene	≥0.1-<0.5%
108-31-6	maleic anhydride	≥0.001-<0.1%

· **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**
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:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
ATE (Acute Toxicity Estimate)		
Oral	LD50	132,299 mg/kg (mouse)
Dermal	LD50	100,796 mg/kg
Inhalative	LC50/4 h	23.9 mg/l (mouse)
100-42-5 styrene		
Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)
Inhalative	LC50/4 h	11.8 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)
57-55-6 propane-1,2-diol		
Oral	LD50	20,000 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (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)
67-56-1 methanol		
Oral	LD50	1,187 mg/kg (mouse)

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Dermal	LD50	17,000 mg/kg (rabbit)
Inhalative	LC50/4 h	128.2 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)
4402-30-6 N- METHYLDIISOPROPANOLAMINE		
Oral	LD50	2,320 mg/kg (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)
108-31-6 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:** 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.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Oral.

· **Carcinogenic categories**
Styrene
An increased incidence of lung tumors was observed in mice from an inhalation study on styrene. The relevance of this finding to humans is uncertain since data from mode of action investigations of mouse lung tumors coupled with other long-term animal studies and epidemiology studies of workers
exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.
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

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

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
100-42-5	styrene	2A
100-41-4	ethylbenzene	2B

· NTP (National Toxicology Program)		
100-42-5	styrene	40-49.99%

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

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12 Ecological information

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

· Aquatic toxicity:	
100-42-5 styrene	
EC50	4.9 mg/l (algae) (72 h)
	4.7 mg/l (daphnia) (48 h)
LC50 (96h)	4.02 mg/l (Fish)
108-88-3 toluene	
EC50	134 mg/l (algae) (96 h)
	3.78 mg/l (daphnia) (48 h)
LC50 (96h)	5.5 mg/l (Fish)
57-55-6 propane-1,2-diol	
EC50	19,000 mg/l (algae) (48 h)
	18,340 mg/l (daphnia) (48 h)
LC50 (96h)	40,613 mg/l (Fish)
1330-20-7 xylene	
EC50	2.2 mg/l (algae)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
67-56-1 methanol	
EC50	8,000 mg/l (algae) (72 h)
	24,500 mg/l (daphnia) (48 h)
LC50 (96h)	15,400 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)
4402-30-6 N- METHYLDIISOPROPANOLAMINE	
LC50 (96h)	101 mg/l (Fish)
100-41-4 ethylbenzene	
EC50	438 mg/l (algae) (72h)
	1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)

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123-86-4 n-butyl acetate	
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
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**		
100-42-5	styrene	.
108-88-3	toluene	.
57-55-6	propane-1,2-diol	.
1330-20-7	xylene	.
67-56-1	methanol	.

· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical 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.

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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 TC11
Trade name: CLEAR PARAFFIN PE

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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** III

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids
· **Hazard identification number (Kemler code):** -
· **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:** > 450 l: 3 F1, II

· **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:** > 450 l: 3, II

· **IATA**
· **Remarks:** > 30 l: 3, II

· **UN "Model Regulation":** UN 1263 PAINT, 3, III

*
15 Regulatory information

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

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings) :		
100-42-5	styrene	40-49.99%
108-88-3	toluene	1-2.49%
1330-20-7	xylene	1-2.49%
67-56-1	methanol	0.5-1%
100-41-4	ethylbenzene	≥0.1-<0.5%
108-31-6	maleic anhydride	≥0.001-<0.1%
1338-02-9	Naphthenic acids, copper salts	<0.01%
142-71-2	copper di(acetate)	<0.01%

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

· Hazardous Air Pollutants	
100-42-5	styrene
108-88-3	toluene
1330-20-7	xylene
67-56-1	methanol
100-41-4	ethylbenzene
108-31-6	maleic anhydride

· **Proposition 65**

· Chemicals known to cause cancer:			
100-42-5	styrene	*	40-49.99%
100-41-4	ethylbenzene	*	≥0.1-<0.5%

· 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:		
108-88-3	toluene	1-2.49%
67-56-1	methanol	0.5-1%

· **Carcinogenic categories**

· EPA (Environmental Protection Agency)			
108-88-3	toluene	II	1-2.49%
1330-20-7	xylene	I	1-2.49%
100-41-4	ethylbenzene	D	≥0.1-<0.5%

· TLV (Threshold Limit Value)		
100-42-5	styrene	A4
108-88-3	toluene	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-31-6	maleic anhydride	A4

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

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.

· **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.

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 / 30
· **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 ï Category 2
Flammable Liquids 3: Flammable liquids ï Category 3
Acute Toxicity - Oral 3: Acute toxicity ï Category 3
Acute Toxicity - Inhalation 4: Acute toxicity ï Category 4
Skin Corrosion 1B: Skin corrosion/irritation ï Category 1B
Skin Irritation 2: Skin corrosion/irritation ï Category 2
Eye Irritation 2A: Serious eye damage/eye irritation ï Category 2A
Sensitization - Respiratory 1: Respiratory sensitisation ï Category 1
Sensitization - Skin 1: Skin sensitisation ï Category 1
Carcinogenicity 1B: Carcinogenicity ï Category 1B
Carcinogenicity 2: Carcinogenicity ï Category 2
Toxic to Reproduction 2: Reproductive toxicity ï Category 2
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) ï Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) ï Category 3
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) ï Category 1
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) ï Category 2
Aspiration Hazard 1: Aspiration hazard ï Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard ï Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard ï 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

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ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
acc. to OSHA HCS

Product number TC11
Trade name: CLEAR PARAFFIN PE

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· ***Data compared to the previous version altered.***