ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
acc. to OSHA HCS

Printing date 08/15/2022 Version number 51 Reviewed on 03/30/2022

1 Identification

· **Product identifier**
· **Product number** PI810
· **Trade name: SB UV SEALER WHITE**
· **Application of the substance / the mixture** For professional use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
IVM Chemicals Srl
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441

· **Information department:**
Environmental Health and safety office
hseoffice@ivmchemicals.com
· **Emergency telephone number:**
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

*
2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 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 Acute 3	H402	Harmful to aquatic life.
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
PHENYL ETHYL PHOSPHATE
toluene
maleic anhydride

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

· **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.
H402 Harmful to aquatic life.
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

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	15-19.99%
67-64-1	acetone Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	2.5-4.99%

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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 Irrititation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336 Aquatic Chronic 3, H412	2.5-4.99%
7473-98-5	2-hydroxy-2-methylpropiophenone Acute Toxicity - Oral 4, H302 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	<2.5%
84434-11-7	PHENYL ETHYL PHOSPHATE Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Sensitization - Skin 1B, H317	1%
110-19-0	isobutyl acetate Flammable Liquids 2, H225 Specific Target Organ Toxicity - Single Exposure 3, H336	0.5-1%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Sensitization - Skin 1A, H317 Aquatic Chronic 4, H413	≥0.5-<1%
78-93-3	butanone Flammable Liquids 2, H225 Eye Irritation 2A, H319; 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%
123-31-9	1,4-dihydroxybenzene Germ Cell Mutagenicity 2, H341; Carcinogenicity 2, H351 Eye Damage 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	<0.025%

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.

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· **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.
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:**		
471-34-1	calcium carbonate	45 mg/mį
100-42-5	styrene	20 ppm

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13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	30 mg/mį
67-64-1	acetone	200 ppm
108-88-3	toluene	67 ppm
110-19-0	isobutyl acetate	450 ppm
78-93-3	butanone	200 ppm

· **PAC-2:**

471-34-1	calcium carbonate	210 mg/mį
100-42-5	styrene	130 ppm
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg/mį
67-64-1	acetone	3200* ppm
108-88-3	toluene	560 ppm
110-19-0	isobutyl acetate	1300* ppm
78-93-3	butanone	2700* ppm

· **PAC-3:**

471-34-1	calcium carbonate	1,300 mg/mį
100-42-5	styrene	1100* ppm
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/mį
67-64-1	acetone	5700* ppm
108-88-3	toluene	3700* ppm
110-19-0	isobutyl acetate	7500** ppm
78-93-3	butanone	4000* 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.

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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 other constituents have no known exposure limits.

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
67-64-1 acetone	
PEL	Long-term value: 2400 mg/mį, 1000 ppm
REL	Long-term value: 590 mg/mį, 250 ppm
TLV	Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI
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
110-19-0 isobutyl acetate	
PEL	Long-term value: 700 mg/mį, 150 ppm
REL	Long-term value: 700 mg/mį, 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm
78-93-3 butanone	
PEL	Long-term value: 590 mg/mį, 200 ppm
REL	Short-term value: 885 mg/mį, 300 ppm Long-term value: 590 mg/mį, 200 ppm
TLV	Short-term value: 300 ppm Long-term value: 200 ppm BEI
108-31-6 maleic anhydride	
PEL	Long-term value: 1 mg/mį, 0.25 ppm

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REL	Long-term value: 1 mg/mį, 0.25 ppm
TLV	Long-term value: 0.01* mg/mį DSEN, RSEN;*inh. fraction + vapor, A4
123-31-9 1,4-dihydroxybenzene	
PEL	Long-term value: 2 mg/mį
REL	Ceiling limit value: 2* mg/mį *15-min
TLV	Long-term value: 1 mg/mį DSEN, A3

· **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 ε g/L Medium: urine Time: end of shift Parameter: Styrene
67-64-1 acetone	
BEI	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (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)
78-93-3 butanone	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: Methyl ethyl ketone (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.

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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 AX

Suitable respiratory protective device recommended.

· **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:**	56 °C (132.8 °F)
· **Flash point:**	-17 °C (1.4 °F)
· **Flammability (solid, gaseous):**	Not applicable.

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· **Ignition temperature:**	>370 °C (>698 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
· **Lower:**	1.2 Vol %
· **Upper:**	30 Vol %
· **Vapor pressure at 20 °C (68 °F):**	233 hPa (174.8 mm Hg)
· **Density (+/- 0,03) at 20 °C (68 °F):**	1.307 g/cmį (10.907 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):**	55 s (ISO 6 mm)
· **Oxidising properties:**	N.A.
· **Solvent content:**	
· **VOC content:**	23.81 % 311.1 g/l / 2.60 lb/gal
· **Solids content:**	89.7 %

· **Other information (HAPS)**

100-42-5	styrene	15-19.99%
108-88-3	toluene	2.5-4.99%
67-56-1	methanol	<0.1%
108-31-6	maleic anhydride	≥0.001-<0.1%
123-31-9	1,4-dihydroxybenzene	<0.025%

· **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:**

in case of possible formation of combustion:

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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)		
Oral	LD50	141,167 mg/kg (mouse)
Inhalative	LC50/4 h	64.7 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)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (mouse)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 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)
7473-98-5 2-hydroxy-2-methylpropiophenone		
Oral	LD50	1,694 mg/kg (mouse)
Dermal	LD50	6,929 mg/kg (mouse)
110-19-0 isobutyl acetate		
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)
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)
78-93-3 butanone		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	21 mg/l (mouse)
108-31-6 maleic anhydride		
Oral	LD50	1,090 mg/kg (mouse)
Dermal	LD50	2,620 mg/kg (rabbit)
123-31-9 1,4-dihydroxybenzene		
Oral	LD50	376 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Irritating effect.

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· **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.
Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

· **Carcinogenic categories**
Titanium dioxide
IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."
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
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.

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**		
100-42-5	styrene	2A
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
14808-60-7	Quartz (SiO2)	1

· **NTP (National Toxicology Program)**		
100-42-5	styrene	15-19.99%
14808-60-7	Quartz (SiO2)	<0.1%

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

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)

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67-64-1 acetone	
EC50	8,800 mg/l (daphnia)
LC50 (96h)	5,540 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)
7473-98-5 2-hydroxy-2-methylpropiophenone	
EC50	119 mg/l (daphnia) (48h)
LC50 (96h)	160 mg/l (Fish)
110-19-0 isobutyl acetate	
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
EC50	1,175 mg/l (daphnia) 48h
78-93-3 butanone	
EC50	2,029 mg/l (algae) (96 h)
	308 mg/l (daphnia) (48 h)
LC50 (96h)	2,993 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)
123-31-9 1,4-dihydroxybenzene	
EC50	0.33 mg/l (algae) (72 h)
	0.13 mg/l (daphnia) (48 h)
LC50 (96h)	0.09 mg/l (Fish)

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

· **Substances Easily biodegradable**		
100-42-5	styrene	.
67-64-1	acetone	.
108-88-3	toluene	.
110-19-0	isobutyl acetate	.

· **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

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

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.
Dispose of contents and container in accordance with local state and federal regulations.

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

14 Transport information

· **UN-Number**
· **DOT, IMDG, IATA** UN1263
· **Note** Check viscosity and flash point at section 9

· **UN proper shipping name**
· **DOT** Paint
· **IMDG, IATA** PAINT

· **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

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· **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):**

123-31-9	1,4-dihydroxybenzene	<0.025%

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

100-42-5	styrene	15-19.99%
108-88-3	toluene	2.5-4.99%
67-56-1	methanol	<0.1%
108-31-6	maleic anhydride	≥0.001-<0.1%
123-31-9	1,4-dihydroxybenzene	<0.025%
7664-38-2	phosphoric acid	<0.01%
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
67-56-1	methanol
108-31-6	maleic anhydride
123-31-9	1,4-dihydroxybenzene

· **Proposition 65**

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

100-42-5	styrene	*	15-19.99%
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	5-9.99%

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14808-60-7	Quartz (SiO2)	*	<0.1%

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

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

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

108-88-3	toluene	2.5-4.99%
67-56-1	methanol	<0.1%

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I	2.5-4.99%
108-88-3	toluene	II	2.5-4.99%
78-93-3	butanone	I	<0.5%

· **TLV (Threshold Limit Value)**

100-42-5	styrene	A4
14807-96-6	Talc (Mg3H2(SiO3)4)	A4
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
67-64-1	acetone	A4
108-88-3	toluene	A4
14808-60-7	Quartz (SiO2)	A2
108-94-1	cyclohexanone	A3
108-31-6	maleic anhydride	A4
123-31-9	1,4-dihydroxybenzene	A3

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

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	5-9.99%
14808-60-7	Quartz (SiO2)	<0.1%

· **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** 08/15/2022 / 50
· **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)

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ivm Chemicals
coatings & polymers technologies

Safety Data Sheet
acc. to OSHA HCS

Product number PI810
Trade name: SB UV SEALER WHITE

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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 - 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 Damage 1: Serious eye damage/eye irritation ï Category 1
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
Sensitization - Skin 1A: Skin sensitisation ï Category 1A
Sensitization - Skin 1B: Skin sensitisation ï Category 1B
Germ Cell Mutagenicity 2: Germ cell mutagenicity ï Category 2
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 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 1: Hazardous to the aquatic environment - acute aquatic hazard ï Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard ï Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard ï Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard ï Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard ï Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard ï 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.***