

1 Identification

- **Product identifier**
 - Product number PD5/90
 - Trade name: **CLEAR WB BINDER**
 - 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**

Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 3H336	May cause drowsiness or dizziness.

· Label elements

- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger

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

1-methoxy-2-propanol
2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated
2-methoxypropanol

- **Hazard statements**

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.
H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

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Classification system:

· NFPA ratings (scale 0 - 4)


 Health = 2
 Fire = 1
 Reactivity = 0

· HMIS-ratings (scale 0 - 4)










 Health = *2
 Fire = 1
 Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

107-98-2	1-methoxy-2-propanol  Flammable Liquids 3, H226  Specific Target Organ Toxicity - Single Exposure 3, H336	50-74.99%
9014-85-1	2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated  Eye Damage 1, H318  Sensitization - Skin 1, H317 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	≥2.5-<3%
1589-47-5	2-methoxypropanol  Flammable Liquids 3, H226  Toxic to Reproduction 1B, H360  Eye Damage 1, H318  Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335	≥0.1-<0.5%

4 First-aid measures

Description of first aid measures

· General information:

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.

· 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.

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- *Indication of any immediate medical attention and special treatment needed*
 No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- *Suitable extinguishing agents:*

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

- *For safety reasons unsuitable extinguishing agents:*

Do not use a jet water stream as it may scatter and spread fire.

- **Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

- **Advice for firefighters**

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

- *Protective equipment:*

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

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

Ensure adequate ventilation

Keep away from ignition sources

- **Environmental precautions:**

Dilute with plenty of water.

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:**

107-98-2	1-methoxy-2-propanol	100 ppm
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- **PAC-2:**

107-98-2	1-methoxy-2-propanol	160 ppm
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- **PAC-3:**

107-98-2	1-methoxy-2-propanol	660 ppm
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7 Handling and storage

· Handling:

- **Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Keep respiratory protective device available.

- **Information about protection against explosions and fires:**
 Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

- **Requirements to be met by storerooms and receptacles:**
 Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
 In cases where there is no reported expiration date, it means that the product must be used within 8 months.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· Control parameters

- **Components with limit values that require monitoring at the workplace:**
 The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
 At this time, the other constituents have no known exposure limits.

107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m , 150 ppm Long-term value: 360 mg/m , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm A4

- **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.

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Filter A

- **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:**

Fluid

- **Color:**

According to product specification

- **Odor:**

Characteristic

- **Odor threshold:**

Not determined.

- **pH-value:**

Mixture is non-polar/aprotic.
 Range: 7 - 9

- **Change in condition**

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

100 °C (212 °F)

- **Flash point:**

100 °C (212 °F)

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

Not applicable.

- **Ignition temperature:**

270 °C (518 °F)

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Product is not selfigniting.

- **Danger of explosion:**

Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:**

2.3 Vol %

- **Upper:**

~20 Vol %

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· Vapor pressure at 20 °C (68 °F):	12 hPa (9 mm Hg)
· Density (+/- 0,03) at 20 °C (68 °F):	0.96 g/cm (8.011 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic at 20 °C (68 °F):	40 s (ISO 4 mm)
· Oxidising properties:	N.A.
· Solvent content:	
· Water:	8.0 %
· VOC content:	69.29 % 665.2 g/l / 5.55 lb/gal
· Solids content:	22.7 %
· Other information (HAPS)	
None of the ingredients is listed.	
· 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** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, alkalis and oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

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

· LD/LC50 values that are relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral	LD50	4,016 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	5,001 mg/l (mouse)

- **Primary irritant effect:**
 - on the skin: No irritant effect.
 - on the eye: Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

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- **Additional toxicological information:**
 Irritant
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 May damage fertility or the unborn child.
 May cause drowsiness or dizziness.

- **Carcinogenic categories**

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

- None of the ingredients is listed.

- **NTP (National Toxicology Program)**

- None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

- None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

- 107-98-2 1-methoxy-2-propanol**

EC50	21,100 mg/l (daphnia) (48 h)
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LC50 (96h)	6,812 mg/l (Fish)
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- **Persistence and degradability** No further relevant information available.

- **Substances Easily biodegradable**

107-98-2	1-methoxy-2-propanol	.
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- **Behavior in environmental systems:**

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

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

- **Additional ecological information:**

- **General notes:**

- Water hazard class 1 (Self-assessment): slightly hazardous for water

- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **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.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.



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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT · IMDG, IATA · Note 	NA1263 UN1263 Check viscosity and flash point at section 9
<ul style="list-style-type: none"> · UN proper shipping name · DOT · IMDG, IATA 	Paint PAINT
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	 <ul style="list-style-type: none"> · Class · Label · Class · Label
<ul style="list-style-type: none"> · IMDG, IATA 	 <ul style="list-style-type: none"> · Class · Label
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category 	Warning: Flammable liquids 30 F-E, S-E A
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1263 PAINT, 3, III

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15 Regulatory information

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

Requirements of Federal Register

· **Various regulations**

· **SARA**

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

1589-47-5 2-methoxypropanol

≥0.1-<0.5%

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **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.

- **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 / 56
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association

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EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Flammable Liquids 3: Flammable liquids . Category 3
 Skin Irritation 2: Skin corrosion/irritation . Category 2
 Eye Damage 1: Serious eye damage/eye irritation . Category 1
 Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A
 Sensitization - Skin 1: Skin sensitisation . Category 1
 Toxic to Reproduction 1B: Reproductive toxicity . Category 1B
 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) . Category 3
 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard . Category 3
 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.**