

Printing date 08/15/2022

Version number 61

Reviewed on 08/15/2022

1 Identification

- · Product identifier
 - · Product number PD4/90
 - · 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

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Aquatic Acute 3 H402 Harmful to aquatic life.

- · Label elements
 - · GHS label elements

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

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P273 Avoid release to the environment.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 0 Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0



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3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

\cdot Dangeroi	us components:	
111-90-0	Diethylene glycol monoethyl ether	10-12.49%
	Flammable Liquids 4, H227	
111-76-2	2-butoxyethanol	5-9.99%
	Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315; Eye Irritation 2A, H319 Flammable Liquids 4, H227	
1336-21-6	ammonia	≥0.5-<1%
	Skin Corrosion 1B, H314 Aquatic Acute 1, H400	
112-34-5	2-(2-butoxyethoxy)ethanol	<0.5%
	🕀 Eye Irritation 2A, H319	
2682-20-4	2-methyl-2H-isothiazol-3-one	≥0.0015-<0.01%
	Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331	
	Skin Corrosion 1B, H314; Eye Damage 1, H318 Sensitization - Skin 1, H317	
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)	≥0.00025-<0.0015
	 Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 2, H310; Acute Toxicity - Inhalation 2, H330 Skin Corrosion 1B, H314; Eye Damage 1, H318 	
	Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100) Sensitization - Skin 1A, H317	

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.
- · 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 (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

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.

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

No dangerous substances are released.

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

Troteouve Addon Onteria for Orientadas	
· PAC-1:	
111-90-0 Diethylene glycol monoethyl ether	75 ppm
111-76-2 2-butoxyethanol	60 ppm
1336-21-6 ammonia	61 ppm
112-34-5 2-(2-butoxyethoxy)ethanol	30 ppm
577-11-7 docusate sodium	5.7 mg/m ³
· PAC-2:	
111-90-0 Diethylene glycol monoethyl ether	100 ppm
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		(Contd. of page 3)
111-76-2	2-butoxyethanol	120 ppm
1336-21-6	ammonia	330 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
577-11-7	docusate sodium	63 mg/m³
· PAC-3:		
111-90-0	Diethylene glycol monoethyl ether	450 ppm
111-76-2	2-butoxyethanol	700 ppm
1336-21-6	ammonia	2,300 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
577-11-7	docusate sodium	380 mg/m³

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· 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.

Take on temperature greater than 5 ° C

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- · 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.

	0-0 Diethylene glycol monoethyl ether
WEEL	Long-term value: 25 ppm
111-76	-2 2-butoxyethanol
PEL	Long-term value: 240 mg/m³, 50 ppm Skin
REL	Long-term value: 24 mg/m³, 5 ppm Skin
TLV	Long-term value: 20 ppm BEI, A3

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112-34-5 2-(2-butoxyethoxy)ethanol

TLV Long-term value: 10* ppm
*Inhalable fraction and vapor

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BEI 200 mg/g creatinine

Medium: urine Time: end of shift

Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
 - · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· 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: Goggles recommended during refilling.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
 - · General Information
 - · Appearance:

· Form:

· Color: According to product specification

Fluid

· Odor: Characteristic

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· Odor threshold:	Not determined.	
· pH-value:	Mixture is non-polar/aprotic. Range: 7 - 9	
· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	Undetermined. 100°C (212°F)	
· Flash point:	100 °C (212 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	400 °C (752 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion	n hazard.
· Explosion limits: · Lower: · Upper:	1.1 Vol % 11.6 Vol %	
· Vapor pressure at 20 °C (68 °F):	1.2 hPa (0.9 mm Hg)	
 Density (+/- 0,03) at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	 1.011 g/cm³ (8.437 lbs/gal) Not determined. Not determined. Not determined. 	
· Solubility in / Miscibility with · Water:	Fully miscible.	
· Partition coefficient (n-octanol/water	r): Not determined.	
 · Viscosity: · Dynamic: · Kinematic at 20 °C (68 °F): · Oxidising properties: 	Not determined. 40 s (ISO 4 mm) N.A.	
· Solvent content: · Water: · VOC content:	57.9 % 16.67 % 168.5 g/l / 1.41 lb/gal	
· Solids content:	24.9 %	
Other information (HAPS)		
111-90-0 Diethylene glycol monoeth		10-12.49%
112-34-5 2-(2-butoxyethoxy)ethanol		<0.5%
110-80-5 2-ethoxyethanol		<0.1%
1330-20-7 xylene		<0.01%
98-82-8 cumene		<0.01%

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 (Contd. on page 7)



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- · 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 to	exicity:	
· LD/	LC50 value	es that are relevant for classification:
ATE (Acu	te Toxicit	y Estimate)
Oral	LD50	23,479 mg/kg (ATE)
Dermal	LD50	21,522 mg/kg (rab)
Inhalative	LC50/4 h	215 mg/l (mouse)
111-90-0 I	Diethylene	e glycol monoethyl ether
Oral	LD50	6,031 mg/kg (mouse)
Dermal	LD50	9,143 mg/kg (rabbit)
111-76-2 2	2-butoxye	thanol
Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (mouse)
1336-21-6	ammonia	
Oral	LD50	3,500 mg/kg (mouse)
112-34-5	2-(2-butox	yethoxy)ethanol
Oral	LD50	6,600 mg/kg (mouse)
Dermal	LD50	2,764 mg/kg (rabbit)
577-11-7	docusate	sodium
Oral	LD50	3,001 mg/kg (mouse)
Dermal	LD50	2,525 mg/kg (rabbit)
2682-20-4	2-methyl-	-2H-isothiazol-3-one
Oral	LD50	200 mg/kg (mouse)
Dermal	LD50	400 mg/kg (mouse)

- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

Inhalative LC50/4 h 0.53 mg/l (mouse)

Irritant

May cause an allergic skin reaction.

· Carcinogenic categories

	· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
98-82-8	cumene	2	2B
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12 Ecological information

- Toxicity

· Toxicity	
· Aquatic t	oxicity:
111-90-0 Di	iethylene glycol monoethyl ether
LC50 48h	1,982 mg/l (daphnia)
LC50 (96h)	101 mg/l (Fish)
111-76-2 2-	butoxyethanol
EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)
1336-21-6 a	nmmonia
EC50	101 mg/l (daphnia) (96 h)
LC50 (96h)	0.89 mg/l (Fish)
112-34-5 2-	(2-butoxyethoxy)ethanol
EC50	1,001 mg/l (daphnia) (48 h)
LC50 (96h)	1,300 mg/l (Leuciscus idus melanotus)
577-11-7 do	ocusate sodium
EC50	100 mg/l (algae) (48 h)
	6.6 mg/l (daphnia) (48 h)
LC50 (96h)	17.3 mg/l (Fish)
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)
EC50	0.027 mg/l (algae) (72 h)
	0.16 mg/l (daphnia) (48 h)
LC50 (96h)	0.19 mg/l (Fish)
. Parsistance	e and degradability. No further relevant information available

Persistence and degradability No further relevant information available.

· Substa	nces Easily biodegradable	
111-90-0	Diethylene glycol monoethyl ether	
111-76-2	2-butoxyethanol	
Dahania	in anvivanmental avatame.	

- · 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.



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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

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.

UN-Number	
· DOT, ADN, IMDG, IATA	Not applicable
· Note	Check viscosity and flash point at section 9
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Not applicable
Packing group	
· DOT, IMDG, IATA	Not applicable
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Not applicable

15 Regulatory information

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

Requirements of Federal Register

- · Various regulations
 - · SARA

51110	•	
·S	ection 355 (extremely hazardous substances):	
None of the	e ingredients is listed.	
$\cdot S$	ection 313 (Specific toxic chemical listings) :	
111-90-0	Diethylene glycol monoethyl ether	10-12.49%
111-76-2	2-butoxyethanol	5-9.99%

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1336-21-6	ammonia	(00	ntd. of pag 0.5-<19
	2-(2-butoxyethoxy)ethanol		:0.5%
	1,2,4-trimethylbenzene		:0.1%
	2-ethoxyethanol		:0.1%
1330-20-7	•		:0.01%
	aluminium oxide		:0.01%
98-82-8	cumene	<	:0.01%
· TSCA	A (Toxic Substances Control Act):		
All compon	ents have the value ACTIVE.		
· H	azardous Air Pollutants		
1330-20-7	xylene		
98-82-8	cumene		
_	osition 65		
· C	hemicals known to cause cancer:		
98-82-8 cu	ımene		* <0.01
· C	hemicals known to cause reproductive toxicity for females:		
None of the	e ingredients is listed.		
· C	hemicals known to cause reproductive toxicity for males:		
110-80-5 2	2-ethoxyethanol		<0.1
· C	hemicals known to cause developmental toxicity:		
110-80-5 2	2-ethoxyethanol		<0.1
· Carci	inogenic categories		
	PA (Environmental Protection Agency)		
	2-butoxyethanol	NL	5-9.99
95-63-6	1,2,4-trimethylbenzene	II .	<0.19
1330-20-7	xylene	1	<0.01
98-82-8	cumene	D, CBD	<0.01
526-73-8	1,2,3-trimethylbenzene	11	<0.01
· T	LV (Threshold Limit Value)		
111-76-	-2 2-butoxyethanol		1
112945-52-	5 silicon dioxide		1
	-7 xylene		/
1344-28-	aluminium oxide		/

· 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



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· Contact: See emergency phone

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· 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 4: Flammable liquids - Category 4

Acute Toxicity - Oral 3: Acute toxicity - Category 3 Acute Toxicity - Oral 4: Acute toxicity - Category 4

Acute Toxicity - Dermal 2: Acute toxicity - Category 2

Skin Corrosion 1B: Skin corrosion/irritation - Category 1B

Skin Irrititation 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

Sensitization - Skin 1A: Skin sensitisation - Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard - Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

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.