

1 Identification

- **Product identifier**
 - Product number TW710/10
 - Trade name: **CLEAR WB CONVERTER**
 - 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**
The product is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
 - GHS label elements Not applicable
 - Hazard pictograms Not applicable
 - Signal word Not applicable
 - Hazard statements Not applicable

- **Classification system:**
 - NFPA ratings (scale 0 - 4)



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
 - Description: Mixture: consisting of the following components.

- **Dangerous components:**

34590-94-8	(2-methoxymethylethoxy)propanol Flammable Liquids 4, H227	1-<5%
5131-66-8	3-butoxypropan-2-ol ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319 Flammable Liquids 4, H227	1-2.49%

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112-34-5	2-(2-butoxyethoxy)ethanol ⚠ Eye Irritation 2A, H319	1-2.49%
108-01-0	2-dimethylaminoethanol ⚠ Flammable Liquids 3, H226 ⚠ Acute Toxicity - Inhalation 3, H331 ⚠ Skin Corrosion 1B, H314 ⚠ Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312	<0.5%
68439-49-6	c16-18 alcohols ethoxylated ⚠ Acute Toxicity - Oral 3, H301 ⚠ Eye Damage 1, H318	<0.5%
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) ⚠ Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 2, H310; Acute Toxicity - Inhalation 2, H330 ⚠ Skin Corrosion 1B, H314 ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100) ⚠ Sensitization - Skin 1A, H317	≥0.00025-<0.0015%

4 First-aid measures

· Description of first aid measures

· General information:

No special measures required.

personal protective equipment for first aid responders is recommended. (please see section 8)

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· Information for doctor:

· **Most important symptoms and effects, both acute and delayed**

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:

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.

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· **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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.
- **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**

· **PAC-1:**

7631-86-9	silicon dioxide, chemically prepared	18 mg/m
34590-94-8	(2-methoxymethylethoxy)propanol	150 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
25322-69-4	Propane-1,2-diol, propoxylated	30 mg/m
108-01-0	2-dimethylaminoethanol	3.7 ppm
68439-49-6	c16-18 alcohols ethoxylated	3.8 mg/m
68439-49-6	c16-18 alcohols ethoxylated	3.8 mg/m
124-68-5	2-amino-2-methylpropanol	17 mg/m

· **PAC-2:**

7631-86-9	silicon dioxide, chemically prepared	740 mg/m
34590-94-8	(2-methoxymethylethoxy)propanol	1700* ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
25322-69-4	Propane-1,2-diol, propoxylated	330 mg/m
108-01-0	2-dimethylaminoethanol	40 ppm
68439-49-6	c16-18 alcohols ethoxylated	42 mg/m
68439-49-6	c16-18 alcohols ethoxylated	42 mg/m
124-68-5	2-amino-2-methylpropanol	190 mg/m

· **PAC-3:**

7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m
34590-94-8	(2-methoxymethylethoxy)propanol	9900** ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
25322-69-4	Propane-1,2-diol, propoxylated	2,000 mg/m
108-01-0	2-dimethylaminoethanol	72 ppm
68439-49-6	c16-18 alcohols ethoxylated	250 mg/m
68439-49-6	c16-18 alcohols ethoxylated	250 mg/m
124-68-5	2-amino-2-methylpropanol	570 mg/m

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7 Handling and storage

- **Handling:**

- *Precautions for safe handling* No special measures required.
- *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 section 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.

34590-94-8 (2-methoxymethylethoxy)propanol

PEL Long-term value: 600 mg/m³, 100 ppm
Skin

REL Short-term value: 900 mg/m³, 150 ppm
Long-term value: 600 mg/m³, 100 ppm
Skin

TLV Long-term value: 50 ppm

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

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

- **Regulatory information**

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

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

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

- **Protection of hands:**

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

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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

- **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.

- **Auto igniting:** 225 °C (437 °F)

- **Decomposition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

- **Lower:** 0.9 Vol %
- **Upper:** 14 Vol %

- **Vapor pressure at 20 °C (68 °F):** 1.3 hPa (1 mm Hg)

- **Density (+/- 0,03) at 20 °C (68 °F):** 1.054 g/cm (8.796 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):** 60 s (ISO 6 mm)

- **Oxidising properties:** N.A.

· Solvent content:

- **Water:** 57.4 %
- **VOC content:** 5.54 %
148.1 g/l / 1.24 lb/gal

- **Solids content:** 37.0 %

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· Other information (HAPS)

112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%
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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:
ATE (Acute Toxicity Estimate)

Oral	LD50	64,249 mg/kg
Inhalative	LC50/4 h	2,179 mg/l (mouse)

34590-94-8 (2-methoxymethylethoxy)propanol

Oral	LD50	5,135 mg/kg (mouse)
Dermal	LD50	9,510 mg/kg (rabbit)

5131-66-8 3-butoxypropan-2-ol

Oral	LD50	3,300 mg/kg (mouse)
Dermal	LD50	8,001 mg/kg (mouse)

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

Oral	LD50	6,600 mg/kg (mouse)
Dermal	LD50	2,764 mg/kg (rabbit)

108-01-0 2-dimethylaminoethanol

Oral	LD50	1,183 mg/kg (mouse)
Dermal	LD50	1,219 mg/kg (rabbit)
Inhalative	LC50/4 h	6.1 mg/l (mouse)

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)

Oral	LD50	64 mg/kg (mouse)
Dermal	LD50	87.12 mg/kg (mouse)

· Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Safety data sheet available on request.

· **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:**

34590-94-8 (2-methoxymethylethoxy)propanol

EC50	970 mg/l (algae) (72 h)
	1,919 mg/l (daphnia) (48 h)
LC50 (96h)	1,001 mg/l (Fish)

5131-66-8 3-butoxypropan-2-ol

EC50	1,001 mg/l (algae) (96 h)
	1,001 mg/l (daphnia) (48 h)
LC50 (96h)	1,000 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)

108-01-0 2-dimethylaminoethanol

EC50	66.1 mg/l (algae) (72 h)
	98.4 mg/l (daphnia) (48 h)

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)

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

· **Substances Easily biodegradable**

34590-94-8	(2-methoxymethylethoxy)propanol	.
5131-66-8	3-butoxypropan-2-ol	.
112-34-5	2-(2-butoxyethoxy)ethanol	.

· **Additional ecological information:**

· **General notes:**

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

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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:**
Smaller quantities can be disposed of with household waste.
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.

14 Transport information

· 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/RID, 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

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

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

112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%
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· **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:**

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:**

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.

· **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** 11/12/2023
 - **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
 - Flammable Liquids 3: Flammable liquids . Category 3
 - Flammable Liquids 4: Flammable liquids . Category 4
 - Acute Toxicity - Oral 4: Acute toxicity . Category 4
 - Acute Toxicity - Dermal 2: Acute toxicity . Category 2
 - Acute Toxicity - Inhalation 3: Acute toxicity . Category 3

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

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 1A: Skin sensitisation . Category 1A

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

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

• 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.

US