

1 Identification

- **Product identifier**
 - *Product number* TN931/00
 - *Trade name:* **KLIMA WB THIXO CLEAR SATIN**
- **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**



Skin Sens. 1 H317 May cause an allergic skin reaction.

H227 Combustible liquid. Flam. Liq. 4

- **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:*
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2-isothiazolin-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)
1,2-benzisothiazol-3(2H)-one
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)
- *Hazard statements*
H227 Combustible liquid. Flam. Liq. 4
H317 May cause an allergic skin reaction.
- *Precautionary statements*
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

· HMIS-ratings (scale 0 - 4)


3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:

34590-94-8	(2-methoxymethylethoxy)propanol H227	1-<5%
112-34-5	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319	1-2.49%
	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) ⚠ Aquatic Chronic 2, H411 ⚠ Skin Sens. 1, H317	0.5-<1%
55965-84-9	mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Sens. 1, H317	<0.0015%

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.

· 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: Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed

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.
- **Special hazards arising from the substance or mixture**
 Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
 - *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** Not required.
- **Environmental precautions:**
 No special measures required, you must contain and collect the spilled material .
- **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.

7 Handling and storage

- **Precautions for safe handling** No special precautions are necessary if used correctly.
 - *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 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:* 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.

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· Control parameters

· *Components with limit values that require monitoring at the workplace:*

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 Short-term value: 909 mg/m³, 150 ppm
 Long-term value: 606 mg/m³, 100 ppm
 Skin

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

TLV Long-term value: 67.5* mg/m³, 10* ppm
 *Inhalable fraction and vapor

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

· Exposure controls

· *Personal protective equipment:*

· *General protective and hygienic measures:* Wash hands before breaks and at the end of work.

· *Breathing equipment:* Not required.

· *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 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:*

Fluid

· *Color:*

According to product specification

· *Odor:*

Characteristic

· *Odour threshold:*

Not determined.

· *pH-value:*

Not determined.

· *Change in condition*

· *Melting point/Melting range:*

Undetermined.

· *Boiling point/Boiling range:*

100 °C (212 °F)

· *Flash point:*

75 °C (167 °F)

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· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	225 °C (437 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Not determined.	
· Explosion limits:		
· Lower:	0.9 Vol %	
· Upper:	14.0 Vol %	
· Vapor pressure at 20 °C (68 °F):	1 hPa (1 mm Hg)	
· Density at 20 °C (68 °F):	1.046 g/cm ³ (8.729 lbs/gal)	
· Relative density	Not determined.	
· Vapour 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):	60 s (ISO 6 mm)	
· Solvent content:		
· Water:	55.9 %	
· VOC content:	5.1 %	
	53.3 g/l / 0.44 lb/gl	
· Solids content:	38.9 %	
· Other information (HAPS)		
112-34-5	2-(2-butoxyethoxy)ethanol	1-2,49%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.1%

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:** No further relevant information available.
- **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:

34590-94-8 (2-methoxymethylethoxy)propanol

Oral	LD50	5135 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	>19000 mg/kg (rab)
Inhalative	LC50	1919 mg/l (daphnia) (48 h)
	LC50/6 h	276 ppm (rat/szczur/mouse/souris/Maus/ratón)

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

Oral	LD50	2410 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2764 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Oral	LD50	5001 mg/kg (rat/szczur/mouse/souris/Maus/ratón) (OECD - 401)
Dermal	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón) (OECD - 402)
Inhalative	LC50/4 h	5801 mg/l (mouse) (OCSE - 403)

· Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

Contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), 1,2-benzisothiazol-3(2H)-one, Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene). May produce an allergic reaction.
 Safety data sheet available on request.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

9002-84-0	Polytetrafluoroethylene	3
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· 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:

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

EC50	101 mg/l (algae) (48 h)
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LC50 (96h)	101 mg/l (daphnia) (48 h) 1300 mg/l (Leuciscus idus melanotus)
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	
EC50	4 mg/l (daphnia) (OECD linee guida 202 parte 1)
LC50 (96h)	2.8 mg/l (Leuciscus idus melanotus) (OECD linee guida 203)
55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	
EC50	0.1 mg/l (daphnia) (48 h)

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
 - **Additional ecological information:**
 - **General notes:** Not known to be hazardous to water.
- **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, ADN, IMDG, IATA | Not applicable |
| · 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. |

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 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

 · **UN "Model Regulation":** -

15 Regulatory information

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

Requirements of Federal Register

 · **SARA**

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

None of the ingredients is listed.

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

1336-21-6 ammonia

143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol

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

All ingredients are 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 established by ACGIH)**

112945-52-5 silicon dioxide

A4

 · **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** 08/27/2014 / 20

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- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

: Flammable liquids, Hazard Category 4

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

- **Sources**

Directive 1999/45/EC and following amendments

Directive 67/548/EEC and following amendments and adjustments

Agency ECHA web site

INRS Fiche Toxicologique

IARC International agency for research on cancer

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

USA