



1 Identification

- **Product identifier**
 - *Product number* WBS5A15
 - *Trade name:* **WHITE ISOLATING PRIMER**
 - *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 4 H227 Combustible liquid. *Flam. Liq. 4*
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* Not applicable
 - *Signal word* Warning
 - *Hazard statements*
H227 Combustible liquid. *Flam. Liq. 4*
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
 - *Precautionary statements*
P210 Keep away from flames and hot surfaces. . No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
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 Health = 0
 FIRE 1 Fire = 1
 REACTIVITY 0 Reactivity = 0

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· *Description:* Mixture: consisting of the following components.

· **Dangerous components:**

112-34-5	2-(2-butoxyethoxy)ethanol ⚠ Eye Irritation 2A, H319	1-2.49%
111-90-0	Diethylene glycol monoethyl ether Flammable Liquids 4, H227	1-2.49%
1314-13-2	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.5-1%
34590-94-8	(2-methoxymethylethoxy)propanol Flammable Liquids 4, H227	<1%
57-55-6	propane-1,2-diol	<0.5%
1336-21-6	ammonia ⚠ Skin Corrosion 1B, H314 ⚠ Aquatic Acute 1, H400	<0.25%

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; 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.

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

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 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.
 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:		
471-34-1	calcium carbonate	45 mg/m
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	30 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
111-90-0	Diethylene glycol monoethyl ether	75 ppm
25265-77-4	2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate)	13 mg/m
1314-13-2	zinc oxide	10 mg/m
34590-94-8	(2-methoxymethylethoxy)propanol	150 ppm
57-55-6	propane-1,2-diol	30 mg/m
1336-21-6	ammonia	61 ppm

· PAC-2:		
471-34-1	calcium carbonate	210 mg/m
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
111-90-0	Diethylene glycol monoethyl ether	100 ppm
25265-77-4	2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate)	140 mg/m
1314-13-2	zinc oxide	15 mg/m
34590-94-8	(2-methoxymethylethoxy)propanol	1700* ppm
57-55-6	propane-1,2-diol	1,300 mg/m
1336-21-6	ammonia	330 ppm

· PAC-3:		
471-34-1	calcium carbonate	1,300 mg/m
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm

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111-90-0	Diethylene glycol monoethyl ether	450 ppm
25265-77-4	2,2,4-Trimethyl-1,3-pentanediolmono(2-methylpropanoate)	840 mg/m
1314-13-2	zinc oxide	2,500 mg/m
34590-94-8	(2-methoxymethylethoxy)propanol	9900** ppm
57-55-6	propane-1,2-diol	7,900 mg/m
1336-21-6	ammonia	2,300 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

No special precautions are necessary if used correctly.
 Protect against electrostatic charges
 No special measures required.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

· 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: 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 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.

112-34-5 2-(2-butoxyethoxy)ethanol	
TLV	Long-term value: 10* ppm *Inhalable fraction and vapor
111-90-0 Diethylene glycol monoethyl ether	
WEEL	Long-term value: 25 ppm
34590-94-8 (2-methoxymethylethoxy)propanol	
PEL	Long-term value: 600 mg/m , 100 ppm Skin
REL	Short-term value: 900 mg/m , 150 ppm Long-term value: 600 mg/m , 100 ppm Skin

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TLV	Long-term value: NIC-50 ppm (Skin)
57-55-6 propane-1,2-diol	
WEEL	Long-term value: 10 mg/m

· *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.
- *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:* 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:* 93 °C (199.4 °F)

- *Flammability (solid, gaseous):* Not applicable.

- *Decomposition temperature:* Not determined.

- *Auto igniting:* Product is not selfigniting.

- *Danger of explosion:* Not determined.

· *Explosion limits:*

- *Lower:* 0.9 Vol %

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· Upper:	11.6 Vol %	
· Vapor pressure at 20 °C (68 °F):	0.1 hPa	
· Density (+/- 0,03) at 20 °C (68 °F):	1.215 g/cm (10.139 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:	44.6 %	
· VOC content:	5.04 %	
	61.3 g/l / 0.51 lb/gal	
· Solids content:	50.0 %	
· Other information (HAPS)		
112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%
111-90-0	Diethylene glycol monoethyl ether	1-2.49%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.5%
110-80-5	2-ethoxyethanol	<0.01%
· 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:		
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	6,600 mg/kg (mouse)
Dermal	LD50	2,764 mg/kg (rabbit)
111-90-0 Diethylene glycol monoethyl ether		
Oral	LD50	6,031 mg/kg (mouse)

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Dermal	LD50	9,143 mg/kg (rabbit)
1314-13-2 zinc oxide		
Oral	LD50	15,000 mg/kg (mouse)
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	5,135 mg/kg (mouse)
Dermal	LD50	19,020 mg/kg (rabbit)
57-55-6 propane-1,2-diol		
Oral	LD50	20,000 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)
143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Oral	LD50	5,171 mg/kg (mouse)
Dermal	LD50	3,540 mg/kg (rabbit)
1336-21-6 ammonia		
Oral	LD50	3,500 mg/kg (mouse)

· **Primary irritant effect:**

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

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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."

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

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
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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** Harmful to aquatic life with long lasting effects.

· **Aquatic toxicity:**

112-34-5 2-(2-butoxyethoxy)ethanol	
EC50	1,001 mg/l (daphnia) (48 h)
LC50 (96h)	1,300 mg/l (Leuciscus idus melanotus)
111-90-0 Diethylene glycol monoethyl ether	
LC50 48h	1,982 mg/l (daphnia)
LC50 (96h)	101 mg/l (Fish)

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1314-13-2 zinc oxide

EC50	0.27 mg/l (algae) 3.3 mg/l (daphnia) (48 h)
LC50 (96h)	1,793 mg/l (Fish)

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)

57-55-6 propane-1,2-diol

EC50	19,000 mg/l (algae) (48 h) 18,340 mg/l (daphnia) (48 h)
LC50 (96h)	40,613 mg/l (Fish)

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

EC50	501 mg/l (daphnia) (48 h)
LC50 (96h)	2,200 mg/l (Leuciscus idus melanotus)

1336-21-6 ammonia

EC50	101 mg/l (daphnia) (96 h)
LC50 (96h)	0.89 mg/l (Fish)

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

- *Substances Easily biodegradable*

112-34-5	2-(2-butoxyethoxy)ethanol	.
111-90-0	Diethylene glycol monoethyl ether	.

- **Behavior in environmental systems:**

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

- **Ecotoxicological effects:**

- *Remark:* Harmful to fish

- **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.

Harmful to aquatic organisms

- **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.

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

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	Not applicable
· Note	Check viscosity and flash point at section 9
· UN proper shipping name	
· DOT, 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**

- Various regulations
- SARA

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

None of the ingredients is listed.

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

112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%
111-90-0	Diethylene glycol monoethyl ether	1-2.49%
1314-13-2	zinc oxide	0.5-1%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.5%
1336-21-6	ammonia	<0.25%
110-80-5	2-ethoxyethanol	<0.01%

· **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:**
Titanium dioxide only in bound form

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13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	5-9.99%
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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

110-80-5	2-ethoxyethanol		<0.01%
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· **Chemicals known to cause developmental toxicity:**

110-80-5	2-ethoxyethanol		<0.01%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1314-13-2	zinc oxide	D, I, II	0.5-1%
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· **TLV (Threshold Limit Value)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6		A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6		5-9.99%
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· **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** 09/14/2022 / 1

· **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)

HMS: 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 4: Flammable liquids . Category 4

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

Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A

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

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

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acc. to OSHA HCS

Printing date 09/14/2022

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IARC International agency for research on cancer

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US