80961820



# Safety Data Sheet acc. to OSHA HCS

Printing date 11/10/2022 Version number 67 Reviewed on 11/10/2022

## 1 Identification

- · Product identifier
  - · Product number HBR1
  - · Trade name: Waterbased primer 2k
    - · 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

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

- · Label elements
  - · GHS label elements

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

· Hazard pictograms



GHS08

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

· Hazard statements

H361 Suspected of damaging fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use. P201

P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

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

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· HMIS-ratings (scale 0 - 4)



### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

	2 bytoxyothonol	1 2 400/
111-70-2	2-butoxyethanol  Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319  Flammable Liquids 4, H227	1-2.49%
112-34-5	2-(2-butoxyethoxy)ethanol  Eye Irritation 2A, H319	1-2.49%
<i>57-55-</i> 6	propane-1,2-diol	0.5-1%
121-44-8	triethylamine  ♠ Flammable Liquids 2, H225 ♠ Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331 ♠ Skin Corrosion 1A, H314 ♠ Acute Toxicity - Oral 4, H302	<0.5%
77-99-6	propylidynetrimethanol  Toxic to Reproduction 2, H361	≥0.1-<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:

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.

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· 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 (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:

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:		
471-34-	1 calcium carbonate	45 mg/m³
13463-67-	7 Titanium dioxide C.I. 77891 Pigment white 6	30 mg/m³
111-76-2	2 2-butoxyethanol	60 ppm
112-34-	5 2-(2-butoxyethoxy)ethanol	30 ppm
57-55-0	propane-1,2-diol	30 mg/m³
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121-44-8	triethylamine	1 ppm
· PAC-2:		
471-34-1	calcium carbonate	210 mg/m³
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg/m³
111-76-2	2-butoxyethanol	120 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
57-55-6	propane-1,2-diol	1,300 mg/m³
121-44-8	triethylamine	170 ppm
· PAC-3:		
471-34-1	calcium carbonate	1,300 mg/m³
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/m³
111-76-2	2-butoxyethanol	700 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
57-55-6	propane-1,2-diol	7,900 mg/m³
121-44-8	triethylamine	1,000 ppm

### 7 Handling and storage

- · Handling:
  - · Precautions for safe handling

Open and handle receptacle with care.

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.

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.

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111-7	6-2 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
112-3	4-5 2-(2-butoxyethoxy)ethanol
TLV	Long-term value: 10* ppm *Inhalable fraction and vapor
57-55	-6 propane-1,2-diol
WEEL	Long-term value: 10 mg/m³
121-4	4-8 triethylamine
PEL	Long-term value: 100 mg/m³, 25 ppm
TLV	Short-term value: 1 ppm Long-term value: 0.5 ppm Skin, A4
	· Ingredients with biological limit values:
111-7	6-2 2-butoxyethanol
N T	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:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Pregnant women should strictly avoid inhalation or skin contact.

· Breathing equipment:

Not required.



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

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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.

· Eve protection: Goggles recommended during refilling.

nformation on basic physical and (	chemical properties
· General Information	sherifical properties
· 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:	225 °C (437 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	0.9 Vol %
· Upper:	30 Vol %
· Vapor pressure at 20 °C (68 °F):	1.2 hPa (0.9 mm Hg)
Density (+/- 0,03) at 20 °C (68 °F):	1.333 g/cm³ (11.124 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.



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· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °	°F): 60 s (ISO 6 mm)	
Oxidising properties:	N.A.	
· Solvent content:		
· Water:	40.3 %	
· VOC content:	5.20 %	
	69.4 g/l / 0.58 lb/gal	
· Solids content:	54.4 %	
· Other information (HAPS)		
112-34-5 2-(2-butoxyethoxy)	ethanol	1-2.49%
121-44-8 triethylamine		<0.5%
Other information	No further relevant information ava	ilable.

# 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:

210000	owiery.	
· <i>LD</i> /	LC50 value	es that are relevant for classification:
ATE (Acu	te Toxicit	y Estimate)
Oral	LD50	58,016 mg/kg (ATE)
Dermal	LD50	427,729 mg/kg
Inhalative	LC50/4 h	499 mg/l (mouse)
111-76-2	2-butoxye	thanol
Oral	LD50	1,200 mg/kg (ATE)
		1,414 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (mouse)
112-34-5	2-(2-butox	yethoxy)ethanol
Oral	LD50	6,600 mg/kg (mouse)
Dermal	LD50	2,764 mg/kg (rabbit)
		(Contd. on page



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57-55-6 p	ropane-1,2	2-diol	
Oral	LD50	20,000 mg/kg (mouse)	
Dermal	LD50	2,001 mg/kg (mouse)	
121-44-8	triethylam	ine	
Oral	LD50	730 mg/kg (mouse)	
Dermal	LD50	580 mg/kg (rabbit)	
Inhalative	LC50/4 h	10.9 mg/l (mouse)	
77-99-6 p	ropylidyne	etrimethanol	
Oral	LD50	14,700 mg/kg (mouse)	
Dermal	LD50	10,001 mg/kg (mouse)	
55965-84-	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)	
· Prin	narv irritan	t offort	

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Suspected of damaging fertility or the unborn child.

Safety data sheet available on request.

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)
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13463-67-7 Titanium dioxide C.I. 77891 Pigment white 6

2B - DUST

· 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

· Aquat	tic toxicity:	
111-76-2	2 2-butoxyethanol	
EC50	1,840 mg/l (algae) (72h)	
	1,550 mg/l (daphnia) (48h)	
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	(Contd. of page 8
LC50 (96h)	1,474 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)
57-55-6 pro	pane-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)
121-44-8 tri	iethylamine
EC50	8 mg/l (algae) (72 h)
	17 mg/l (daphnia) (48 h)
LC50 (96h)	36 mg/l (Fish)
77-99-6 pro	pylidynetrimethanol
EC50	1,001 mg/l (algae) (72h)
	13,000 mg/l (daphnia) (48h)
LC50 (96h)	1,001 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.

· Substances Easily biodegradable			
	2-butoxyethanol		
112-34-5	2-(2-butoxyethoxy)ethanol		
57-55-6	propane-1,2-diol		

#### 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:

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.

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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/RID, ADN, IMDG, IATA		
· Class	Not applicable	
Packing group		
· DOT, IMDĠ, 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

SAN	$\mathcal{A}$				
. 3	· Section 355 (extremely hazardous substances):				
None of the ingredients is listed.					
· Section 313 (Specific toxic chemical listings) :					
111-76-2	2-butoxyethanol	1-2.49%			
112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%			
121-44-8	triethylamine	<0.5%			
1336-21-6	ammonia	<0.1%			
· TSCA (Toxic Substances Control Act):					
All components have the value ACTIVE.					

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· Hazardous Air Pollutants

121-44-8 triethylamine

· Proposition 65

· Chemicals known to cause cancer:

Titanium dioxide only in bound form

13463-67-7 | Titanium dioxide C.I. 77891 Pigment white 6

only for Dust 10-12.49%

· 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

	Curcu	iogenie euregories				
	· EPA (Environmental Protection Agency)					
	111-76-2 2-	butoxyethanol	NL	1-2.49	%	
	· TLV (Threshold Limit Value)					
	13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6		A	14	
	14807-96-6	Talc (Mg3H2(SiO3)4)		Α	14	
	111-76-2	2-butoxyethanol		Α	13	
	121-44-8	triethylamine		A	14	
· NIOSH-Ca (National Institute for Occupational Safety and Health)						
	13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	10	0-12.49	%	

<sup>·</sup> 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 11/10/2022
  - · 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)

VOC. Volatile Organic Compounds (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

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OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids — Category 2
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 - Dermal 3: Acute toxicity — Category 3
Skin Corrosion 1A: Skin corrosion/irritation — Category 1A
Skin Corrosion 1B: Skin corrosion/irritation — Category 1B
Skin Irritation 2: Skin corrosion/irritation — Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1A: Skin sensitisation – Category 1A Toxic to Reproduction 2: Reproductive toxicity – Category 2

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