

## 1 Identification

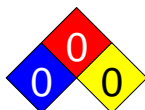
- **Product identifier**
  - *Product number* HBR1
  - *Trade name:* **Waterbased primer 2k**
  - *Relevant identified uses of the substance or mixture and uses advised against*  
A coating composition for water-based coating and / or decoration of wooden artefacts
  - *Application of the substance / 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)*



Health = 0  
Fire = 0  
Reactivity = 0

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



Health = 0  
Fire = 0  
Reactivity = 0

## 3 Composition/information on ingredients

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

### · **Dangerous components:**

111-76-2	2-butoxyethanol	1-2.49%
	<div>                      Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319                      Flam. Liq. 4, H227                 </div>	
112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%
	<div>                      Eye Irrit. 2, H319                 </div>	

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57-55-6	propane-1,2-diol	1-2.49%
121-44-8	triethylamine	0.1-<0.5%
	<ul style="list-style-type: none"> <li>⚠ Flam. Liq. 2, H225</li> <li>⚠ Skin Corr. 1A, H314</li> <li>⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332</li> </ul>	
1071-93-8	adipohydrazide	0.1-<0.5%
	<ul style="list-style-type: none"> <li>⚠ Aquatic Chronic 2, H411</li> <li>Aquatic Acute 2, H401</li> </ul>	
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) a 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)	<0.0015%
	<ul style="list-style-type: none"> <li>⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</li> <li>⚠ Skin Corr. 1B, H314</li> <li>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410</li> <li>⚠ Skin Sens. 1, H317</li> </ul>	

#### 4 First-aid measures

• **Description of first aid measures**

- **General information:** No special measures required.
- **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.

• **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

• **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:** No special measures required.

#### 6 Accidental release measures

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

• **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.

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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.

## 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 item 7.

· **Control parameters**

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

**111-76-2 2-butoxyethanol**

PEL Long-term value: 240 mg/m , 50 ppm  
Skin

REL Long-term value: 24 mg/m , 5 ppm  
Skin

TLV Long-term value: 97 mg/m , 20 ppm  
BEI

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

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

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

WEEL Long-term value: 10 mg/m

· *Ingredients with biological limit values:*

**111-76-2 2-butoxyethanol**

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BEI 200 mg/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: Butoxyacetic acid 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:**

The usual precautionary measures for handling chemicals should be followed.

· **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:**

89 °C (192 °F)

· **Flash point:**

Not applicable.

· **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:**

12.6 Vol %

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# Safety Data Sheet

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Version number 19

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· Vapor pressure at 20 °C (68 °F):		1.2 hPa (1 mm Hg)
· Density at 20 °C (68 °F):		1.337 g/cm (11.157 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)
· Oxidising properties:		N.A.
· Solvent content:		
· Water:		40.4 %
· VOC content:		4.7 %
		62.7 g/l / 0.52 lb/gl
· Solids content:		54.9 %
· Other information (HAPS)		
112-34-5	2-(2-butoxyethoxy)ethanol	1-2,49%
121-44-8	triethylamine	0.1-<0.5%
· 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:** No further relevant information available.
- **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:

#### 111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rab)

#### 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)

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

Oral	LD50	20000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

**121-44-8 triethylamine**

Oral	LD50	730 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	580 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	10.9 mg/l (rat/szczur/mouse/souris/Maus/ratón)

**1071-93-8 adipohydrazide**

Oral	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
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· **Primary irritant effect:**

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

· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

Contains 1,2-benzisothiazol-3(2H)-one, 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) a 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). May produce an allergic reaction.

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.

· **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)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B Only for 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**· **Aquatic toxicity:****111-76-2 2-butoxyethanol**

EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)

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

EC50	101 mg/l (algae) (48 h)
	101 mg/l (daphnia) (48 h)
LC50 (96h)	1300 mg/l (Leuciscus idus melanotus)

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

EC50	19000 mg/l (algae) (48 h)
	18340 mg/l (daphnia) (48 h)
LC50 (96h)	40613 mg/l (Fish)

**121-44-8 triethylamine**

EC50	8 mg/l (algae) (72 h)
	17 mg/l (daphnia) (48 h)
LC50 (96h)	36 mg/l (Fish)

**1071-93-8 adipohydrazide**

EC50	9.19 mg/l (algae) (72 h)
	101 mg/l (daphnia) (48 h)
LC50 (96h)	101 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) a 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)
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- **Persistence and degradability** No further relevant information available.
- **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.  
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

- |  |                |
|--|----------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b> <ul style="list-style-type: none"> <li>· DOT, ADN, IMDG, IATA</li> </ul> </li> </ul>               | Not applicable |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b> <ul style="list-style-type: none"> <li>· DOT, ADN, IMDG, IATA</li> </ul> </li> </ul> | Not applicable |

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**· 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":**

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### 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) :**

111-76-2	2-butoxyethanol	1-2,49%
121-44-8	triethylamine	0.1-<0.5%
1336-21-6	ammonia	<0.1%

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

All ingredients are listed.

**· Proposition 65****· Chemicals known to cause cancer:**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	10-12,49%
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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:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories****· EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL	1-2,49%
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**· TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
14807-96-6	Talc (Mg3H2(SiO3)4)	A4
111-76-2	2-butoxyethanol	A3
121-44-8	triethylamine	A4

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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	10-12,49%

· **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** 09/18/2015 / 18

· **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

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

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

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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 - AcuteHazard, Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2

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.**