

1 Identification

- **Product identifier**
 - *Product number* HKA114
 - *Trade name:* **WB NEUTRAL CONVERTER 20SH**
 - *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**
Flam. Liq. 4 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* Not applicable
 - *Signal word* Warning
 - *Hazard statements*
H227 Combustible liquid. Flam. Liq. 4
 - *Precautionary statements*
 - P210 Keep away from flames and hot surfaces. . No smoking.
 - P280 Wear protective gloves / eye protection / face protection.
 - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
 - 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)*



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

HEALTH	0	Health = 0
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

3 Composition/information on ingredients

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

(Contd. on page 2)

Product number HKA114

Trade name: WB NEUTRAL CONVERTER 20SH

(Contd. of page 1)

111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	1-2,49%
34590-94-8	(2-methoxymethylethoxy)propanol Flam. Liq. 4, H227	1-<5%
68439-49-6	c16-18 alcohols ethoxylated ⚠ Acute Tox. 3, H301 ⚠ Aquatic Acute 1, H400 ⚠ Eye Irrit. 2A, H319	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 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.

· 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:

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

US

(Contd. on page 3)

Product number HKA114

Trade name: WB NEUTRAL CONVERTER 20SH

(Contd. of page 2)

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:**

Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of 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**

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 precautions are necessary if used correctly.

- *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:*

111-76-2 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: 97 mg/m³, 20 ppm
BEI

(Contd. on page 4)

Product number HKA114

Trade name: WB NEUTRAL CONVERTER 20SH

(Contd. of page 3)

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

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

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



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:

Not determined.

(Contd. on page 5)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 11/12/2015

Version number 3

Reviewed on 11/12/2015

Product number HKA114**Trade name: WB NEUTRAL CONVERTER 20SH**

(Contd. of page 4)

· Change in condition		
· Melting point/Melting range:		Undetermined.
· Boiling point/Boiling range:		100 °C (212 °F)
· Flash point:		65 °C (149 °F)
· Flammability (solid, gaseous):		Not applicable.
· Ignition temperature:		240 °C (464 °F)
· Decomposition temperature:		Not determined.
· Auto igniting:		Product is not selfigniting.
· Danger of explosion:		Not determined.
· Explosion limits:		
· Lower:		1.1 Vol %
· Upper:		14.0 Vol %
· Vapor pressure at 20 °C (68 °F):		1.2 hPa (1 mm Hg)
· Density at 20 °C (68 °F):		1.04 g/cm (8.679 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:		58.7 %
· VOC content:		5.5 %
		56.7 g/l / 0.47 lb/gl
· Solids content:		35.7 %
· Other information (HAPS)		
112-34-5	2-(2-butoxyethoxy)ethanol	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.

US

(Contd. on page 6)

Product number HKA114

Trade name: WB NEUTRAL CONVERTER 20SH

(Contd. of page 5)

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)

34590-94-8 (2-methoxymethylethoxy)propanol

Oral	LD50	5135 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	19020 mg/kg (rab)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	1193 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	4115 mg/kg (rabbit/królik/Kaninchen/conejo/lapín)

· 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). May produce an allergic reaction.

· 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:

111-76-2 2-butoxyethanol

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

34590-94-8 (2-methoxymethylethoxy)propanol

EC50	970 mg/l (algae) (72 h)
	1919 mg/l (daphnia) (48 h)
LC50 (96h)	1001 mg/l (Fish)

2634-33-5 1,2-benzisothiazol-3(2H)-one

EC50	2.94 mg/l (daphnia) (48 h)
LC50 (96h)	2.18 mg/l (Fish)

(Contd. on page 7)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 11/12/2015

Version number 3

Reviewed on 11/12/2015

Product number HKA114**Trade name: WB NEUTRAL CONVERTER 20SH**

(Contd. of page 6)

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	0.1 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:** Not known to be hazardous to water.
- **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.
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 |
| · 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. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not applicable |

US

(Contd. on page 8)

Product number HKA114

Trade name: WB NEUTRAL CONVERTER 20SH

(Contd. of page 7)

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%
112-34-5	2-(2-butoxyethoxy)ethanol	0.1-<0.5%

· 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)

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

111-76-2	2-butoxyethanol	A3
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· 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 11/12/2015 / 2

· 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)

(Contd. on page 9)

Safety Data Sheet

29 CFR Parts 1910 1915 1926

Printing date 11/12/2015

Version number 3

Reviewed on 11/12/2015

Product number HKA114**Trade name: WB NEUTRAL CONVERTER 20SH**

(Contd. of page 8)

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
 BEI: Biological Exposure Limit
 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. 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
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

• **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.**

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