Printing date 14.03.2017

Revision: 14.03.2017

#### SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: MULTIAKTIV - PRIMER KOMBISTICK · Article number: 82410 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · 1.2.1 Relevant identified uses · Sector of Use SU3 Industrial uses: uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) · Product category PC1 Adhesives, sealants • Process category PROC4 Chemical production where opportunity for exposure arises • Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article · Application of the substance / the preparation : Primer for adhesive or sealant • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: PETEC Verbindungstechnik GmbH Wüstenbuch 26 96132 SCHLÜSSELFELD / DEUTSCHLAND Telefon +49 (0) 9555 80994-0 Fax +49 (0) 9555-80994-25 Homepage www.petec.de E-Mail : info@petec.de · Information department: Laboratory · 1.4 Emergency telephone number: +49 (0) 9555 80994-0 SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flam. Lig. 2 H225 Highly flammable liquid and vapour. Skin Irrit. 2 H315 Causes skin irritation. H319 Eve Irrit. 2 Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if Resp. Sens. 1 H334 inhaled. Skin Sens. 1 H317 May cause an allergic skin reaction. Carc. 2 H351 Suspected of causing cancer. STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 GHS08 Signal word Danger (Contd. on page 2) GB

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

	(Contd. of page 1)
Hazard-	determining components of labelling:
	hylenediphenyl diisocyanate
	hylketone
Polyisoc	yanate based on hexamethylene diisocyanate and tolylene diisocyanate
	methanediisocyanate, isomers and homologues
diphenyl	methane-2,4'-diisocyanate
1,6-hexa	methylene diisocyanate homopolymer
Hazard s	statements
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335-H3	336 May cause respiratory irritation. May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
Precaut	ionary statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P284	In case of inadequate ventilation wear respiratory protection.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P3	361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P3	351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents and container in accordance with local regulations.
	I precautionary statements P102 Keep out of reach of children.
	nal information :
	s isocyanates. May produce an allergic reaction.
	er hazards
	of PBT and vPvR assossment

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

· **Description:** Product based upon polyisocyanate

<ul> <li>Dangerous components:</li> </ul>		
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methylethylketone 🔅 Flam. Liq. 2, H225; 🔶 Eye Irrit. 2, H319; STOT SE 3, H336	40-60%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate line Flam. Liq. 3, H226; (1) STOT SE 3, H336	5-15%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	5-10%
	(Contd.	on page

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

CAS: 26426-91-5	Polyisocyanate based on hexamethylene diisocyanate and tolylene diisocyanate Skin Sens. 1, H317	5-10%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32	carbon black substance with a Community workplace exposure limit	2-5%
CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	2-5%
CAS: 5873-54-1 EINECS: 227-534-9 Reg.nr.: 01-2119480143-45	diphenylmethane-2,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	2-5%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	< 2%
CAS: 28182-81-2 Reg.nr.: 01-2119485796-17	1,6-hexamethylene diisocyanate homopolymer	<2%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate	< 2%
CAS: 683-18-1 EINECS: 211-670-0 Reg.nr.: 01-2119496066-31	dibutyltin dichloride ♦ Acute Tox. 3, H301; Acute Tox. 2, H330; ♦ Muta. 2, H341; Repr. 1B, H360FD; STOT RE 1, H372; ♦ Skin Corr. 1B, H314; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ↑ Acute Tox. 4, H312	< 0.1%

• Additional information :

Contains 4,4'-methylenediphenyl diisocyanate (CAS : 101-68-8, EINECS : 202-966-0, Reg. nr. : 01-2119457014-47)

For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- · General information Immediately remove any clothing soiled by the product.
- · After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness, place patient stably in side position for transportation.
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed

Headache Dizziness Gastric or intestinal disorders. Drowsiness

Breathing difficulty

(Contd. on page 4)

GB

Printing date 14.03.2017

Revision: 14.03.2017

(Contd. of page 3)

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents CO2, extinguishing powder or water spray.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx) Hydrogen cyanide (HCN)
- Isocyanates

In certain fire conditions, traces of other toxic gases cannot be excluded.

- 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol.
  6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
  6.3 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 item 13. Send for recovery or disposal in suitable receptacles. Do not close them (reaction with water forming carbon dioxide).
- 6.4 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.

#### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling
   Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
   Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- **Requirements to be met by storerooms and receptacles:** Store in a cool location. Provide ventilation for receptacles.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed. Protect from humidity and water.

(Contd. on page 5)

GB

Printing date 14.03.2017

Revision: 14.03.2017

Trade name: MULTIAKTIV - PRIMER KOMBISTICK

• 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

· Additional information about design of technical systems: No further data; see item 7.

· 8.1 Control parameters

	oonents with limit values that require monitoring at the workplace:	
	-3 methylethylketone	
WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV	
123-8	6-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
101-6	8-8 4,4'-methylenediphenyl diisocyanate	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO	
1333-	86-4 carbon black	
WEL	Short-term value: 7 mg/m³ Long-term value: 3.5 mg/m³	
9016-	87-9 diphenylmethanediisocyanate, isomers and homologues	
WEL	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO	
5873-	54-1 diphenylmethane-2,4'-diisocyanate	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO	
108-6	5-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk	
683-1	8-1 dibutyltin dichloride	
WEL	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk	
Ingre	dients with biological limit values:	
-	-3 methylethylketone	
	/ 70 μmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one	
	1	(Contd. on pa

Printing date 14.03.2017

Revision: 14.03.2017

CAS No. Designation of material % Additional Occupational Exposure Lim 101-68-8 4,4'-methylenediphenyl diisoc WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³		Value Unit	
<b>101-68-8 4,4'-methylenediphenyl diisoc</b> WEL   Short-term value: 0.07 mg/m <sup>3</sup>	it Values f		ds durina processina:
WEL Short-term value: 0.07 mg/m <sup>3</sup>			us during processing.
	yanale		
Sen; as -NCO			
Additional information: The lists that we	ere valid du	ring the creation w	ere used as basis.
General protective and hygienic measu Wash hands before breaks and at the end Immediately remove all soiled and contan Do not inhale gases / fumes / aerosols. Do not eat, drink, smoke while working. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution of exposure use respiratory protective device Short term filter device: Filter AB Protection of hands: Butyl rubber gloves of superior quality. The selection of the suitable gloves does quality and varies from manufacturer to m substances, the resistance of the glove m be checked prior to the application. Eye protection: Tightly sealed goggles. Body protection: Protective work clothin	d of work. ninated cloti use respirat e that is ind not only de nanufacture aterial can	tory filter device. In lependent of circula pend on the materi r. As the product is	ating air. al, but also on further marks o a preparation of several
SECTION 9: Physical and chemi			
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour:		roperties	
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling range	chemical p Fluid Black without undeterm : 79 °C		
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point:	chemical p Fluid Black without undeterm		
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling range	chemical p Fluid Black without undeterm : 79 °C		
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point:	Fluid Black without undeterm : 79 °C -8 °C > 200 °C	ined	room temperature.
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Self-ignition temperature:	<i>chemical p</i> <i>Fluid</i> <i>Black</i> <i>without</i> <i>undeterm.</i> <i>: 79 °C</i> <i>-8 °C</i> <i>&gt; 200 °C</i> <i>Product is</i> <i>Product is</i>	ined s not selfigniting at	wever, formation of explosive
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Self-ignition temperature: Self igniting:	<i>chemical p</i> <i>Fluid</i> <i>Black</i> <i>without</i> <i>undeterm.</i> <i>: 79 °C</i> <i>-8 °C</i> <i>&gt; 200 °C</i> <i>Product is</i> <i>Product is</i>	ined s not selfigniting at s not explosive. Ho	wever, formation of explosive
9.1 Information on basic physical and o General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling range Flash point: Self-ignition temperature: Self igniting:	<i>chemical p</i> <i>Fluid</i> <i>Black</i> <i>without</i> <i>undeterm</i> <i>: 79 °C</i> <i>-8 °C</i> <i>&gt; 200 °C</i> <i>Product is</i>	ined s not selfigniting at	· ·

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

	(Contd. of pa	age 6)
· Density at 20 °C:	0.95	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not miscible or difficult to mix.	
<ul> <li>Viscosity: dynamic at 20 °C:</li> </ul>	approx. 1 mPa.s	
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>9.2 Other information</li> </ul>	63 % No further relevant information available.	

#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water forming carbon dioxide.Danger of receptacles bursting because of vapour overpressure.
- Reacts with strong oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None to our knowledge at room temperature.

## SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:	

78-93-3 $methylethylketone$ OralLD503300 mg/kg (rat)DermalLD505000 mg/kg (rat) <b>123-86-4</b> $n$ -butyl acetateOralLD5014000 mg/kg (rat)InhalativeLC50/4 h>21.0 mg/l (rat) <b>683-18-1</b> dibutyltin dichlorideOralLD50OralLD50100 mg/kg (rat)• Primary irritant effect:• Skin corrosion/irritationFrequent or prolonged contact may irritate and cause dermatitis.• Causes skin irritation.• Serious eye damage/irritation• Causes serious eye irritation.• Respiratory or skin sensitisation• Mesceroritation explore a base this explore a base this explore it inheled a
Dermal         LD50         5000 mg/kg (rbt)           123-86-4        butyl ac=tate           Oral         LD50         14000 mg/kg (rat)           Inhalative         LC50/4 h         >21.0 mg/l (rat)           683-18-1         dibutyltin
123-86-4 n-butyl acetate         Oral       LD50       14000 mg/kg (rat)         Inhalative       LC50/4 h       >21.0 mg/l (rat)         683-18-1       dibutyltin       dichloride         Oral       LD50       100 mg/kg (rat)         Primary irritant effect:       skin corrosion/irritation         Frequent or prolonged contact may irritate and cause dermatitis.         Causes skin irritation.         Serious eye damage/irritation         Causes serious eye irritation.         Respiratory or skin sensitisation
Oral       LD50       14000 mg/kg (rat)         Inhalative       LC50/4 h       >21.0 mg/l (rat)         683-18-1       dibutyltin       dichloride         Oral       LD50       100 mg/kg (rat)         Primary irritant effect:       Skin corrosion/irritation         Frequent or prolonged contact may irritate and cause dermatitis.         Causes skin irritation.         Serious eye damage/irritation.         Causes serious eye irritation.         Respiratory or skin sensitisation
Inhalative       LC50/4 h       >21.0 mg/l (rat)         683-18-1       dibutyltin       dichloride         Oral       LD50       100 mg/kg (rat)         Primary irritant effect:       Skin corrosion/irritation         Frequent or prolonged contact may irritate and cause dermatitis.         Causes skin irritation.         Serious eye damage/irritation         Causes serious eye irritation.         Respiratory or skin sensitisation
683-18-1 dibutyItin dichloride         Oral       LD50       100 mg/kg (rat)         Primary irritant effect:       Skin corrosion/irritation         Frequent or prolonged contact may irritate and cause dermatitis.         Causes skin irritation.         Serious eye damage/irritation         Causes serious eye irritation.         Respiratory or skin sensitisation
Oral       LD50       100 mg/kg (rat)         Primary irritant effect:       Skin corrosion/irritation         Frequent or prolonged contact may irritate and cause dermatitis.         Causes skin irritation.         Serious eye damage/irritation         Causes serious eye irritation.         Respiratory or skin sensitisation
Primary irritant effect: Skin corrosion/irritation Frequent or prolonged contact may irritate and cause dermatitis. Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation
Skin corrosion/irritation Frequent or prolonged contact may irritate and cause dermatitis. Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

(Contd. on page 8)

GB

Printing date 14.03.2017

Revision: 14.03.2017

(Contd. of page 7)

## Trade name: MULTIAKTIV - PRIMER KOMBISTICK

· Additional toxicological information:

Persons having a history of asthma or of allergies, chronic or recurring difficulties in breathing, must never use this preparation.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity
   Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation. May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Other information: -
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. The product contains materials that are harmful to the environment.

Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation
- Must be disposed of in an incinerator for hazardous waste according to official regulations.
- · Waste disposal key: 14 06 03\*

· Uncleaned packaging :

· Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1866
• 14.2 UN proper shipping name • ADR	1866 RESIN SOLUTION (vapour pressure at 50 °C not more than 110 kPa)

Printing date 14.03.2017

Revision: 14.03.2017

### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

	(Contd. of page
IMDG, IATA	RESIN SOLUTION
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	11
· 14.5 Environmental hazards: · Marine pollutant:	No
<ul> <li>14.6 Special precautions for user</li> </ul>	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number: · Stowage Category	F-E, <u>S-E</u> B
<ul> <li>14.7 Transport in bulk according to Ann Marpol and the IBC Code</li> </ul>	<b>ex II of</b> Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
· Limited quantities (LQ)	5L Code: E2
<ul> <li>Excepted quantities (EQ)</li> </ul>	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1866 RESIN SOLUTION (VAPOUR PRESSUR AT 50 °C NOT MORE THAN 110 KPA), 3, II

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 20, 30, 56a, 56b

(Contd. on page 10)

GB -

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

(Contd. of page 9)

#### • 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### SECTION 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. This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/ EC and their amendments ; it is written according to annex II of the european regulation 830/2015/EC.

#### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H360FD May damage fertility. May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Laboratory
- · Contact: cf. § 1
- · Review :

An asterisk in the margin of a paragraph means amendments in comparison to the former version. • **Abbreviations and acronyms:** 

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- 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) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2
- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 3: Acute toxicity Category 3
- Acute Tox. 2: Acute toxicity Category 2
- Acute Tox. 4: Acute toxicity Category 4
- Skin Corr. 1B: Skin corrosion/irritation Category 1B
- Skin Irrit. 2: Skin corrosion/irritation Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

(Contd. on page 11)

<sup>-</sup> GB

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

(Contd. of page 10) Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2 Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – 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 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

(Contd. on page 12)

GB

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

(Contd. of page 11)

Annex: Exposure	
Name 4,4'-methylene	
Short title of the exp	
	foam, coatings and adhesives and sealants
	in rigid foam, coatings, adhesives and sealants and other composite material
Consumer end use in	rigid foam, coatings and adhesives and sealants
Sector of Use	
	uses of substances as such or in preparations at industrial sites
	ises: Public domain (administration, education, entertainment, services, craftsmer
	es: Private households / general public / consumers
Product category	
PC1 Adhesives, sea	
	paints, thinners, paint removers
	arations and compounds
Process category	
	oduction where opportunity for exposure arises
	ending in batch processes
PROC7 Industrial sp	
	f substance or mixture (charging and discharging) at non-dedicated facilities
	f substance or mixture (charging and discharging) at dedicated facilities
	substance or mixture into small containers (dedicated filling line, including
weighing)	
PROC15 Use as lab	
Environmental relea	
	rial site leading to inclusion into/onto article
	use leading to inclusion into/onto article (indoor)
	use leading to inclusion into/onto article (outdoor)
ERC2 Formulation in	
	ccording to directions for use.
Duration and freque	
up to 8 hour(s) per da	
	e in rigid foam, coatings and adhesives and sealants :
Covers use up to 1 da	
Covers skin contact a	
Physical parameters	
Physical state Liquid	
	e substance in the mixture Raw material.
Other operational co	
Local fresh water dilu	onditions affecting environmental exposure
Local marine water di	
	onditions affecting worker exposure
Avoid contact with the	s snill allu eyes.
Indoor application.	
Outdoor application.	anour/aarosol
Do not breathe gas/va	
	onditions affecting consumer exposure Keep out of the reach of children.
	onditions affecting consumer exposure during the use of the product
Not applicable.	
Risk management m	ieasures
Worker protection	lard of general ventilation (not less than 2 to 5 air changes not have). Drevide
	lard of general ventilation (not less than 3 to 5 air changes per hour). Provide
	at points where emissions occur. Provide extract ventilation to material transfer

points and other openings. Handle in a fumecupboard or under extract ventilation.

(Contd. on page 13)

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK (Contd. of page 12) If above technical/organisational control measures are not feasible, then adopt following PPE: wear a respirator conforming to EN140 with Type A filter or better. Use suitable eye protection and gloves. Wear suitable coveralls to prevent exposure to the skin. · Organisational protective measures Ensure that activities are executed by specialists or authorised personnel only. Technical protective measures Ensure that suitable extractors are available on processing machines Work only in fume cupboard. Ensure good ventilation/exhaustion at the workplace. · Personal protective measures Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Tightly sealed goggles. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Short term filter device: Filter A2B2-P3 Butyl, nitrile or polychloroprene rubber gloves of superior quality. 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. Protective work clothing. Measures for consumer protection Ensure adequate labelling. Keep locked up and out of the reach of children. Protective gloves Tightly sealed goggles. · Environmental protection measures · Air No special measures required. • Water Do not allow to reach ground water, water bodies or sewage system. · Soil Prevent contamination of soil. · Disposal measures Disposal must be made according to official regulations. Disposal procedures Must not be disposed of together with household garbage. Do not allow product to reach sewage svstem. · Exposure estimation · Worker (dermal) The highest dermal exposure to be expected is 5.0 mg / kg / day. (estimations using EASE) · Worker (inhalation) The highest inhalative exposure to be expected is 0.05 ppm. · Environment Prediction of highest expected environmental exposure (soil) is 0.27 mg/kg dry weight The highest environmental exposure to be expected for surface waters is 0.0687 mg / L. Prediction of highest expected environmental exposure (sea water) is 0.000543 mg/kg · Consumer The highest inhalative exposure to be expected for consumers is 0.020 ppm. The highest dermal exposure to be expected for consumers is 0.069 mg / kg / day. (Consexpo model) · Guidance for downstream users For the risk assessment, the tools recommended by ECHA can be used. GB

(Contd. on page 14)

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

(Contd. of page 13)

Annex: Exposure scenario 2	
Annex. Exposure scenario 2	
· Name methylethylketone	
<ul> <li>Short title of the exposure scenario</li> </ul>	
Industrial use for rigid foam, coatings and adhesives and sealants	
Professional end use in rigid foam, coatings, adhesives and sealants and	d other composite material
Consumer end use in rigid foam, coatings and adhesives and sealants	
· Sector of Use	
SU3 Industrial uses: uses of substances as such or in preparations at ir	
SU22 Professional uses: Public domain (administration, education, enter	
SU21 Consumer uses: Private households / general public / consumers	3
Product category	
PC1 Adhesives, sealants	
PC9a Coatings and paints, thinners, paint removers	
Process category	
PROC4 Chemical production where opportunity for exposure arises	
PROC5 Mixing or blending in batch processes	
PROC7 Industrial spraying	
PROC8a Transfer of substance or mixture (charging and discharging) a	
PROC8b Transfer of substance or mixture (charging and discharging) a	
PROC9 Transfer of substance or mixture into small containers (dedicate	ed filling line, including
weighing)	
PROC10 Roller application or brushing	
PROC11 Non industrial spraying	
PROC13 Treatment of articles by dipping and pouring	
PROC19 Manual activities involving hand contact	
Environmental release category	
ERC2 Formulation into mixture	
ERC4 Use of non-reactive processing aid at industrial site (no inclusion	into or onto article)
ERC5 Use at industrial site leading to inclusion into/onto article	
ERC8a Widespread use of non-reactive processing aid (no inclusion int	to or onto article, indoor)
ERC8c Widespread use leading to inclusion into/onto article (indoor)	
ERC8d Widespread use of non-reactive processing aid (no inclusion int	to or onto article, outdoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)	
<b>Conditions of use</b> According to directions for use.	
Duration and frequency	
SU21, PC1 (adhesives, sealants) :	
Leisure adhesives PC1 :	
Concentrations up to 30 %	
365 days/year	
up to 4 hour(s) per day	
Exposed skin surface : 35.73 cm <sup>2</sup>	
Amounts used/applied per event : 9 g	
Room volume : > 20 $m^3$	
Do-it-yourself adhesives PC1 :	
Concentration of substance in product : up to 30 %	
Up to 6 h per day, 1 days per year	
Exposed skin surface : 110 cm <sup>2</sup>	
Amounts used/applied per event : 6390 g	
Room volume : > 20 $m^3$	
Provide good general ventilation (at least 0.6 air change(s) per hour)	
Sealing products PC1 :	
Concentration of substance in product : up to 20 % 365 days/yearr	

Printing date 14.03.2017

Revision: 14.03.2017

#### Trade name: MULTIAKTIV - PRIMER KOMBISTICK

(Contd. of page 14)
Exposed skin surface : 35.73 cm <sup>2</sup>
Amounts used/applied per event : 75 g
1 hour(s)/day
Room volume : > 34 m³
Provide good general ventilation (at least 0.6 air change(s) per hour)
SU21,PC9a (coatings and paintings,solvents, thinners) :
Concentration of substance in product : up to 50 %
3 days/year
Up to 2 h per day
Exposed skin surface : 857.5 cm <sup>2</sup>
Amounts used/applied per event : 491 g
Room volume : > 20 m³
Provide good general ventilation (at least 0.6 air change(s) per hour)
· Physical parameters
· Physical state Fluid
<ul> <li>Concentration of the substance in the mixture</li> </ul>
<u>SU22 :</u>
Weight fraction substance in the product (when used as cleaning agent PROC 10) : up to maximum of 25 %
Weight fraction substance in the product (when used as cleaning agent with low-pressure cleaning equipment PROC 10) : up to maximum of 5 %
Weight fraction substance in the product (when used as cleaning agent with high-pressure cleaning equipment PROC 11) : up to maximum of 1 %
· Other operational conditions
· Other operational conditions affecting environmental exposure
Observe section 6 of the Safety Data Sheet (Accidental release measures).
· Other operational conditions affecting worker exposure
Avoid contact with the skin and eyes.
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking.
Ensure adequate ventilation, especially in closed rooms.
· Other operational conditions affecting consumer exposure Keep out of the reach of children.
Other operational conditions affecting consumer exposure during the use of the product
Application temperature : room temperature
· Risk management measures
· Worker protection
Do not eat, drink, smoke while working.
SU3 :
Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN
374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities
immediately after spilling. Wash skin immediately after handling. Complete basic training of personnel,
so that exposure is minimized and eventually the skin problems are reported. Other measures of skin
protection are required, such as waterproof clothing and a protective mask during activities with high
spread, leading to the likely significant release of aerosols (e.g. spraying).
Mixing operations (closed systems) : provide adequate general ventilation (not less than 3 to 5 air
changes per hour).
Preparation of material for application / blending operations (open systems) : provide adequate
controlled ventilation (10 to 15 air changes per hour).
Spray (automatic / robotic) : carry out in ventilated booth with laminar air flow.
Spray : ensure an adequate controlled ventilation (10 to 15 air changes per hour). Wear a respiratory
protection (standard EN 140 with Type A filter or better).
Roller coating, spraying and flow coating : provide additional ventilation where emissions occur.
Storage with occasional controlled exposure : store substance in a closed system.
<u>SU 22 :</u>
Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN
374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities
(Contd. on page 16)

Printing date 14.03.2017

Revision: 14.03.2017

## Trade name: MULTIAKTIV - PRIMER KOMBISTICK

(Contd. of page 15) immediately after spilling. Wash skin immediately after handling. Complete basic training of personnel, so that exposure is minimized and eventually the skin problems are reported. Other measures of skin protection are required, such as waterproof clothing and a protective mask during activities with high spread, leading to the likely significant release of aerosols (e.g. spraying). Preparation of material for indoor application : provide adequate controlled ventilation (10 to 15 air changes per hour); avoid activities with more than 1 hour exposure. Preparation of material for outdoor application : ensure that exploitation takes place outdoors ; avoid activities with more than 1 hour exposure. Indoor roller coating, spraying and flow coating : ensure adequate controlled ventilation (10 to 15 air changes per hour) ; wear respiratory protection (standard EN 140 with Type A filter or better). Outdoor roller coating, spray and flow coating : ensure that the operation takes place outdoors, wear respiratory protection (standard EN 140 with Type A filter or better). Indoor spraying : carry out in ventilated booth with laminar air flow. Outdoor spraying : ensure that the operation takes place outdoors ; avoid activities with more than 4 hours exposure ; wear a full face respirator according to standard EN136 with Type A filter or better. Cleaning and maintenance of equipment : extinguish systems before opening and maintenance of equipment ; avoid activities with more than 4 hours exposure.
controlled ventilation (10 to 15 air changes per hour).
· Technical protective measures
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines
· Personal protective measures
Do not inhale gases / fumes / aerosols.
Tightly sealed goggles.
Avoid contact with the eyes.
· Measures for consumer protection
Ensure adequate labelling.
Protective gloves
Tightly sealed goggles.
Keep locked up and out of the reach of children. • Environmental protection measures
Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.
• Water Do not allow to reach ground water, water bodies or sewage system.
• <b>Soil</b> Prevent contamination of soil.
• Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.
• Disposal measures Disposal must be made according to official regulations.
· Disposal procedures Product residues are incinerated as special waste.