

According to 1907/2006/EC (REACH), 2015/830/EU Date of compilation: 26/11/2019

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: R-SL-DEK-01-SPEC, R-SL-DEK-04-SPEC, R-SL-DEK-06-SPEC, R-SL-DEK-07-SPEC

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses: Sealant

Version: 1

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Name and address: Rawlplug S.A. ul. Kwidzyńska 6, 51-416 Wrocław

Telephone number: +48 (0) 71 32 60 100 Fax number: +48 (0) 71 37 26 111

Email address of competent person responsible for the SDS: infochem@rawlplug.com

**1.4 Emergency telephone number:** +48 661 970 365 (Monday-Friday: 8:00-16:00, English)

#### SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

#### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Flam. Lig. 3: Flammable liquids, Category 3, H226

2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

Warning



#### **Hazard statements:**

Flam. Liq. 3: H226 - Flammable liquid and vapour

# **Precautionary statements:**

P102: Keep out of reach of children

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P262: Do not get in eyes, on skin, or on clothing

P280: Wear protective gloves/protective clothing/eye protection/face protection

P402+P404: Store in a dry place. Store in a closed container

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

# **Supplementary information:**

EUH066: Repeated exposure may cause skin dryness or cracking

EUH208: Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Hydroxyphenyl benzotriazol derivative. May produce an allergic reaction

# Additional Labelling (Annex XVII, REACH):

Do not use in paint spraying equipment

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable

# 3.2 Mixture:

Chemical description: Mixture composed of additives, aggregates and resins in solvents

Components:



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification		Concentration
CAS:	123-86-4	N-butyl acetate(1)		ATP CLP00	
	204-658-1 607-025-00-1 01-2119485493-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	<u>(1)</u>	10 - <20 %
	112-34-5	2-(2-butoxyethoxy)et	thanol <sup>(1)</sup>	ATP CLP00	
	203-961-6 603-096-00-8 01-2119475104-44- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	<u>(1)</u>	7 - <10 %
	872-50-4	N-methyl-2-pyrrolidone <sup>(1)</sup> ATP ATP09			
EC: Index: REACH:	212-828-1 606-021-00-7 01-2119472430-46- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Repr. 1B: H360D; Skin Irrit. 2: H315; STOT SE 3: H335 - Dang	jer 🕦 🕸	0,1 - <1 %
CAS:	41556-26-7	Bis(1,2,2,6,6-pentam	ethyl-4-piperidyl) sebacate <sup>(1)</sup>	Self-classified	
EC: Index: REACH:	255-437-1 Non-applicable Non-applicable	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning	<u>(!)</u>	0,1 - <1 %
CAS:	Non-applicable	Hydroxyphenyl benzotriazol derivative(1)  ATP CLP00			
EC: Index: REACH:	400-830-7 607-176-00-3 : 01-0000015075-76- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning	(1) (to	0,1 - <1 %

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### Other information:

Identification	Specific concentration limit	
N-methyl-2-pyrrolidone CAS: 872-50-4 EC: 212-828-1	% (w/w) >=10: STOT SE 3 - H335	

# **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

## By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

# By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

# By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

# 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

Date of compilation: 26/11/2019 Version: 1 Page 2/13



According to 1907/2006/EC (REACH), 2015/830/EU

#### SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

## 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

# 7.2 Conditions for safe storage, including any incompatibilities:

- CONTINUED ON NEXT PAGE -

Date of compilation: 26/11/2019 Version: 1 Page 3/13



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 7: HANDLING AND STORAGE (continued)

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 35 °C

Maximum time: 18 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

# 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	E	Environmental limits		
N-methyl-2-pyrrolidone	IOELV (8h)	10 ppm	40 mg/m <sup>3</sup>	
CAS: 872-50-4 EC: 212-828-1	IOELV (STEL)	20 ppm	80 mg/m <sup>3</sup>	
2-(2-butoxyethoxy)ethanol	IOELV (8h)	10 ppm	67.5 mg/m <sup>3</sup>	
CAS: 112-34-5 EC: 203-961-6	IOELV (STEL)	15 ppm	101.2 mg/m <sup>3</sup>	

# **DNEL (Workers):**

		Short e	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 123-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 204-658-1	Inhalation	960 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>	480 mg/m³	480 mg/m <sup>3</sup>	
2-(2-butoxyethoxy)ethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 112-34-5	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable	
EC: 203-961-6	Inhalation	Non-applicable	101,2 mg/m <sup>3</sup>	67,5 mg/m <sup>3</sup>	67,5 mg/m <sup>3</sup>	
N-methyl-2-pyrrolidone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 872-50-4	Dermal	4,8 mg/kg	Non-applicable	4,8 mg/kg	Non-applicable	
EC: 212-828-1	Inhalation	14,4 mg/m³	Non-applicable	14,4 mg/m³	Non-applicable	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 41556-26-7	Dermal	2,5 mg/kg	Non-applicable	2,5 mg/kg	Non-applicable	
EC: 255-437-1	Inhalation	2,35 mg/m <sup>3</sup>	2,35 mg/m <sup>3</sup>	2,35 mg/m <sup>3</sup>	Non-applicable	

# **DNEL (General population):**

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 204-658-1	Inhalation	859,7 mg/m <sup>3</sup>	859,7 mg/m <sup>3</sup>	102,34 mg/m <sup>3</sup>	102,34 mg/m <sup>3</sup>
2-(2-butoxyethoxy)ethanol	Oral	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
CAS: 112-34-5	Dermal	Non-applicable	Non-applicable	50 mg/kg	Non-applicable
EC: 203-961-6	Inhalation	Non-applicable	50,6 mg/m <sup>3</sup>	40,5 mg/m <sup>3</sup>	34 mg/m <sup>3</sup>
N-methyl-2-pyrrolidone	Oral	26 mg/kg	Non-applicable	6,3 mg/kg	Non-applicable
CAS: 872-50-4	Dermal	125 mg/kg	Non-applicable	11,9 mg/kg	Non-applicable
EC: 212-828-1	Inhalation	80 mg/m <sup>3</sup>	Non-applicable	12,5 mg/m <sup>3</sup>	Non-applicable
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Oral	1,25 mg/kg	Non-applicable	1,25 mg/kg	Non-applicable
CAS: 41556-26-7	Dermal	1,25 mg/kg	Non-applicable	1,25 mg/kg	Non-applicable
EC: 255-437-1	Inhalation	0,58 mg/m <sup>3</sup>	0,58 mg/m³	0,58 mg/m <sup>3</sup>	Non-applicable

### PNEC:



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,0903 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0981 mg/kg
2-(2-butoxyethoxy)ethanol	STP	200 mg/L	Fresh water	1 mg/L
CAS: 112-34-5	Soil	0,32 mg/kg	Marine water	0,1 mg/L
EC: 203-961-6	Intermittent	11 mg/L	Sediment (Fresh water)	4 mg/kg
	Oral	56 g/kg	Sediment (Marine water)	0,4 mg/kg
N-methyl-2-pyrrolidone	STP	10 mg/L	Fresh water	0,25 mg/L
CAS: 872-50-4	Soil	0,138 mg/kg	Marine water	0,025 mg/L
EC: 212-828-1	Intermittent	5 mg/L	Sediment (Fresh water)	1,42 mg/kg
	Oral	1,67 g/kg	Sediment (Marine water)	0,142 mg/kg
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	STP	1 mg/L	Fresh water	0,0022 mg/L
CAS: 41556-26-7	Soil	0,21 mg/kg	Marine water	0,00022 mg/L
EC: 255-437-1	Intermittent	0,009 mg/L	Sediment (Fresh water)	1,05 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,11 mg/kg

## 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves	CAT III	EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

<sup>&</sup>quot;As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

# D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield	CATII	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

## E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CAT III	EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

- CONTINUED ON NEXT PAGE -

Date of compilation: 26/11/2019 Version: 1 Page 5/13



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

# F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

#### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 13,5 % weight
V.O.C. density at 20 °C: Non-applicable

Average carbon number: 5,98

Average molecular weight: 115,88 g/mol

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Liquid Appearance: Paste

Colour: According to the markings on the package

Odour: Characteristic
Odour threshold: Non-applicable \*

Volatility:

Boiling point at atmospheric pressure: Non-applicable \*

Vapour pressure at 20 °C: 974 Pa

Vapour pressure at 50 °C: 4841,92 Pa (4,84 kPa)

Evaporation rate at 20 °C: Non-applicable \*

**Product description:** 

Density at 20 °C: Non-applicable \* Relative density at 20 °C: 1,05 - 1,11 Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: >20,5 cSt Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \* Explosive properties: Non-applicable \* \*Not relevant due to the nature of the product, not providing information property of its hazards.

Date of compilation: 26/11/2019 Version: 1 Page 6/13



According to 1907/2006/EC (REACH), 2015/830/EU

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Oxidising properties: Non-applicable \*

Flammability:

Flash Point: >28 °C

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Not available

Not available

**Explosive:** 

Lower explosive limit: Non-applicable \*
Upper explosive limit: Non-applicable \*

9.2 Other information:

Surface tension at 20 °C:

Refraction index:

Non-applicable \*

Non-applicable \*

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

## 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

## 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
ſ	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

# 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

# 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Date of compilation: 26/11/2019 Version: 1 Page 7/13

<sup>\*</sup>Not relevant due to the nature of the product, not providing information property of its hazards.



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

# B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
    - IARC: 2,6-di-tert-butyl-p-cresol (3); Silicon dioxide (RCS < 1%) (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

#### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

# Other information:

Non-applicable

## Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23,4 mg/L (4 h)	Rat
2-(2-butoxyethoxy)ethanol	LD50 oral	>2000 mg/kg	
CAS: 112-34-5	LD50 dermal	>2000 mg/kg	
EC: 203-961-6	LC50 inhalation	>20 mg/L (4 h)	
N-methyl-2-pyrrolidone	LD50 oral	3598 mg/kg	Rat
CAS: 872-50-4	LD50 dermal	7000 mg/kg	Rat
EC: 212-828-1	LC50 inhalation	>20 mg/L	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 oral	2615 mg/kg	Rat
CAS: 41556-26-7	LD50 dermal	>2000 mg/kg	
EC: 255-437-1	LC50 inhalation	>20 mg/L	
Hydroxyphenyl benzotriazol derivative	LD50 oral	>2000 mg/kg	
CAS: Non-applicable	LD50 dermal	>2000 mg/kg	
EC: 400-830-7	LC50 inhalation	>20 mg/L	

# **Acute Toxicity Estimate (ATE mix):**

Date of compilation: 26/11/2019 Version: 1 Page 8/13



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

ATE mix		Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

# 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
N-butyl acetate	LC50	62 mg/L (96 h)	Leuciscus idus	Fish
CAS: 123-86-4	EC50	73 mg/L (24 h)	Daphnia magna	Crustacean
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
N-methyl-2-pyrrolidone	LC50	832 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 872-50-4	EC50	4897 mg/L (48 h)	Daphnia magna	Crustacean
EC: 212-828-1	EC50	500 mg/L (72 h)	Scenedesmus subspicatus	Algae
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LC50	0.97 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 41556-26-7	EC50	20 mg/L (24 h)	Daphnia magna	Crustacean
EC: 255-437-1	EC50	Non-applicable		
Hydroxyphenyl benzotriazol derivative	LC50	1 - 10 mg/L (96 h)		Fish
CAS: Non-applicable	EC50	1 - 10 mg/L		Crustacean
EC: 400-830-7	EC50	1 - 10 mg/L		Algae

# 12.2 Persistence and degradability:

Identification	De	gradability	Biodegradability	
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4	COD	Non-applicable	Period	5 days
EC: 204-658-1	BOD5/COD	0.79	% Biodegradable	84 %
2-(2-butoxyethoxy)ethanol	BOD5	0.25 g O2/g	Concentration	100 mg/L
CAS: 112-34-5	COD	2.08 g O2/g	Period	28 days
EC: 203-961-6	BOD5/COD	0.12	% Biodegradable	92 %
N-methyl-2-pyrrolidone	BOD5	1.09 g O2/g	Concentration	100 mg/L
CAS: 872-50-4	COD	1.6 g O2/g	Period	28 days
EC: 212-828-1	BOD5/COD	0.68	% Biodegradable	73 %

# 12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
N-butyl acetate	BCF	4
CAS: 123-86-4	Pow Log	1.78
EC: 204-658-1	Potential	Low
2-(2-butoxyethoxy)ethanol	BCF	0.46
CAS: 112-34-5	Pow Log	0.56
EC: 203-961-6	Potential	Low
N-methyl-2-pyrrolidone	BCF	0.23
CAS: 872-50-4	Pow Log	-0.46
EC: 212-828-1	Potential	Low

# 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
N-butyl acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 123-86-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	Non-applicable
2-(2-butoxyethoxy)ethanol	Koc	48	Henry	7,2E-9 Pa·m³/mol
CAS: 112-34-5	Conclusion	Very High	Dry soil	No
EC: 203-961-6	Surface tension	3,395E-2 N/m (25 °C)	Moist soil	No

Date of compilation: 26/11/2019 Version: 1 Page 9/13



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
N-methyl-2-pyrrolidone	Koc	Non-applicable	Henry	Non-applicable
CAS: 872-50-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 212-828-1	Surface tension	4,007E-2 N/m (25 °C)	Moist soil	Non-applicable

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Dangerous

## Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

# Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:



**14.1 UN number:** UN1325

**14.2 UN proper shipping name:** FLAMMABLE SOLID, ORGANIC, N.O.S.

14.3 Transport hazard class(es): 4.1
Labels: 4.1

14.4 Packing group: III

14.4 Packing group: III

14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: 274
Tunnel restriction code: E

Physico-Chemical properties: see section 9 Limited quantities: 5 kg

14.7 Transport in bulk according Non-applicable to Annex II of Marpol and the

IBC Code:

# Transport of dangerous goods by sea:

With regard to IMDG 38-16:



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 14: TRANSPORT INFORMATION (continued)



**14.1 UN number:** UN1325

**14.2 UN proper shipping name:** FLAMMABLE SOLID, ORGANIC, N.O.S.

**14.3** Transport hazard class(es): 4.1 Labels: 4.1

**14.4 Packing group:** III **14.5 Environmental hazards:** No

14.6 Special precautions for user

Special regulations: 223, 274, 915 EmS Codes: F-A, S-G Physico-Chemical properties: see section 9 Limited quantities: 5 kg

Segregation group: Non-applicable **Transport in bulk according** Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and the

**IBC Code:** 

## Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:



Date of compilation: 26/11/2019

**14.1 UN number:** UN1325

**14.2 UN proper shipping name:** FLAMMABLE SOLID, ORGANIC, N.O.S.

**14.3** Transport hazard class(es): 4.1 Labels: 4.1

**14.4 Packing group:** III **14.5 Environmental hazards:** No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7** Transport in bulk according to Annex II of Marpol and the

**IBC Code:** 

## **SECTION 15: REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): N-methyl-2-pyrrolidone

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Version: 1 Page 11/13



According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 15: REGULATORY INFORMATION (continued)

Contains more than 3 % of 2-(2-butoxyethoxy)ethanol by weight. 1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: Do not use in paint spraying equipment'.

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams.
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Contains N-methyl-2-pyrrolidone. 1. | Shall not be placed on the market as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manufacturers, importers and downstream users have included in the relevant chemical safety reports and safety data sheets, Derived No-Effect Levels (DNELs) relating to exposure of workers of 14,4 mg/m3 for exposure by inhalation and 4,8 mg/kg/day for dermal exposure. | 2. | Shall not be manufactured, or used, as a substance on its own or in mixtures in a concentration equal to or greater than 0,3 % after 9 May 2020 unless manufacturers and downstream users take the appropriate risk management measures and provide the appropriate operational conditions to ensure that exposure of workers is below the DNELs specified in paragraph 1. | 3. | By way of derogation from paragraphs 1 and 2, the obligations laid down therein shall apply from 9 May 2024 in relation to placing on the market for use, or use, as a solvent or reactant in the process of coating wires.

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The product could be affected by sectorial legislation

## 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### SECTION 16: OTHER INFORMATION

# Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

# Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

# Texts of the legislative phrases mentioned in section 2:

H226: Flammable liquid and vapour

# Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:



Page 13/13

## Safety data sheet

According to 1907/2006/EC (REACH), 2015/830/EU

# SECTION 16: OTHER INFORMATION (continued)

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects

Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 3: H226 - Flammable liquid and vapour Repr. 1B: H360D - May damage the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness

#### Classification procedure:

Flam. Liq. 3: Calculation method (2.6.4.3)

## Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

#### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -