

## SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

### 1.1. Product identification

#### 2K MAT CLEAR COAT

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

Component A of a two-component coat with high content of solids. Intended for professional use.

### 1.3. Data of the safety data sheet supplier

#### Przedsiębiorstwo RANAL Sp. z o.o.

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42-240 Rudniki k. Częstochowy, PL  
Tel.: +48 34 329 45 03  
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Registration number: 000029202

#### Person responsible for the safety data sheet

ranal@ranal.pl

### 1.4. Emergency telephone

+48 34 329 45 03 (8.00 - 15.00)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The product is classified as hazardous according to current regulations.

#### Regulation no 1272/2008 (CLP):

Skin Irrit. 2, Skin irritation, cat. 2; H315; Causes skin irritation.

Eye Irrit. 2, Eye irritation, cat. 2; H319; Causes eye irritation.

STOT SE 3, Specific target organ toxicity – single exposure, cat. 3, respiratory irritation; H335; May cause respiratory irritation.

STOT SE 3, Specific target organ toxicity – single exposure, cat. 3, narcotic effect; H336; May cause drowsiness or dizziness.

STOT RE 2, Specific target organ toxicity – repeated exposure, cat. 2; H373; May cause damage to organs through prolonged or repeated exposure.

Flam. Liq. 3, Flammable liquid, cat. 3; H226; Flammable liquid and vapour.

### 2.2. Label elements

#### Regulation no 1272/2008 (CLP):

Pictograms:



GHS02    GHS07    GHS08

Signal word: **Warning.**

Hazard statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P314	Get medical advice/attention if you feel unwell.
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Storage:

P403 + P235	Store in a well ventilated place. Keep cool.
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Disposal:

P501	Dispose of contents/container to: landfill for hazardous substances.
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Additional information on the label:

EUH208 Contains methyl methacrylate. May cause an allergic reaction.  
EUH066 Repeated exposure may cause skin dryness or cracking.

VOC II/B/5 limit 840 g/l; VOC=520 g/l

Substances relevant for classification

Butyl acetate.

Xylene.

### 2.3. Other hazards

No data.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Description:

mixture of organic components with additives.

Components:

According to Annex II to the Regulation (EC) no 1907/2006 (item 3).

Substance name	Identification	Classification 1272/2008		% wag
butyl acetate	CAS 123-86-4 Index 607-025-00-1 EC 204-658-1 Registration no 01-2119485493-29-xxxx	Flam. Liq. 3 STOT SE 3 EUH066	H226 H336	<45 %
xylene	CAS 1330-20-7 Index 215-535-7 EC 201-159-0 Registration no 01-2119539452-40-xxxx	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1	H226 H312 H332 H315 H319 H335 H373 H304	<20 %
ethylbenzene	CAS 100-41-4 Index 202-849-4 EC 601-023-00-4 Registration no 01-2119489370-35-xxxx	Flam. Liq. 2 Acute Tox. 4 STOT RE 2 Asp. Tox. 1	H225 H332 H373 H304	<5%
2-butoxyethyl acetate	CAS 112-07-2 Index 607-038-00-2 EC 203-933-3 Registration no 01-2119475112-47-xxxx	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4	H302 H312 H332	<3%
methyl methacrylate	CAS 80-62-6 Index - EC 203-625-9 Registration no 01-2119471310-51-xxxx	Flam. Liq. 2 STOT SE 3 Skin Irrit. 2 Skin Sens. 1B	H225 H335 H315 H317	<0.4%

<sup>1</sup> The substance is hazardous to health or environment; meets the criteria set out in Commission Regulation (EU) 2015/830.

<sup>2</sup> Substance with an EU specified workplace exposure limit.

More information on hazards and hazard statements provided in section 16 of the Sheet.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Airways:

Remove the injured person from the area of exposure, provide access to fresh air. In case of respiratory arrest perform artificial respiration. Provide medical help if needed.

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**Ingestion:**  
Rinse mouth with water. Do not give anything to an unconscious person to swallow. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Provide medical help.

**Contact with eyes:**  
Remove contact lenses. Rinse with plenty of water with the eyelid held wide open, avoiding a strong water jet. If necessary consult an ophthalmologist.

**Contact with skin:**  
Take off contaminated clothes and shoes. Wash skin with plenty of water and soap. If skin irritation occurs, consult a doctor.

### **4.2. Most important symptoms both acute and delayed**

High doses of vapours may cause: dizziness, drowsiness, headache, loss of consciousness.  
Contact with skin may cause its dryness and cracking.

### **4.3. Indications of any immediate medical attention and special treatment needed**

Symptomatic treatment. First aiders should wear medical gloves.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

**Suitable extinguishing media:** carbon dioxide CO<sub>2</sub>, extinguishing powders, foam resistant to alcohol, water mist.

**Unsuitable extinguishing media:** full jet of water.

### **5.2. Special hazards arising from the substance or mixture**

Flammable liquid and vapour. Combustion may form carbon oxides and other toxic gases. Vapours form explosive mixtures with air.

### **5.3. Advice for firefighters**

Use self-contained breathing apparatus and full protective clothing. Tanks exposed to high temperature should be cooled with water from a safe distance and, if possible, removed from the endangered area.  
Prevent fire-fighting water from entering surface or ground water.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency measures**

Eliminate ignition sources. Avoid breathing vapour / mist / spray. Provide adequate ventilation. Avoid contamination of eyes, skin and clothing. Wear protective clothing and equipment. Potentially explosive area, vapours may travel along the floor to distant sources of ignition and create a risk of flashback.

### **6.2. Environmental precautions**

Prevent from entering sewage system, surface water, ground water and soil. In the event of serious contamination of a watercourse, sewage system or soil, notify the appropriate administrative and control authorities and rescue organizations.

### **6.3. Methods and materials for containment and cleaning up**

Eliminate the source of the leak. Collect small spills with non-combustible absorbent material. Collect large spills mechanically. Collect contaminated soil.

### **6.4. Reference to other sections**

Personal protection measures – see section 8 of the Sheet.

Disposal considerations – see section 13 of the Sheet.

## **SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**

### **7.1. Precautions for safe handling**

Avoid open flames and high temperature. Work in well ventilated rooms. Do not breathe vapours or spray. Avoid contamination of eyes, skin and clothes. Do not eat or drink at the site where the product is used. Wash hands before each break and at the end of work. Observe the rules of personal hygiene.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed, original containers in a well ventilated place at temperatures between 5 – 35°C; away from the sources of fire and heat.

### **7.3. Special end use (s)**

No data available.

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**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES**

**8.1. Control parameters**

**Maximum permissible concentrations:**

SUBSTANCE	IDENTIFICATION	MPC (mg/m <sup>3</sup> )	MPIC (mg/m <sup>3</sup> )	MPCC (mg/m <sup>3</sup> )
butyl acetate	CAS 123-86-4	240	720	-
xylene	CAS 1330-20-7	100	200	-
ethylbenzene	CAS 100-41-4	200	400	-
2-butoxyethyl acetate	CAS 112-07-2	100	300	-
methyl methacrylate	CAS 80-62-6	100	300	-

**DNEL value:**

butyl acetate	DNEL value	workers	skin	long-term exposure	7 mg/kg bw/day
	DNEL value	workers	inhalation	long-term exposure	48 mg/m <sup>3</sup>
	DNEL value	consumers	skin	long-term exposure	3.4 mg/kg bw/day
	DNEL value	consumers	inhalation	long-term exposure	12 mg/m <sup>3</sup>
	DNEL value	consumers	ingestion	long-term exposure	3.4 mg/kg bw/day

xylene	DNEL value	workers	inhalation	acute exposure	443 mg/m <sup>3</sup>
	DNEL value	workers	skin	long-term exposure	3182 mg/kg bw/kg
	DNEL value	workers	inhalation	long-term exposure	221 mg/m <sup>3</sup>
	DNEL value	consumers	skin	long-term exposure	1872 mg/kg bw/day
	DNEL value	consumers	inhalation	long-term exposure	65.3 mg/m <sup>3</sup>
	DNEL value	consumers	ingestion	long-term exposure	12.5 mg/kg bw/day

ethylbenzene	DNEL value	workers	skin	long-term exposure	180mg/kg bw/day
	DNEL value	workers	inhalation	acute exposure	289 mg/m <sup>3</sup>
	DNEL value	workers	inhalation	long-term exposure	77 mg/m <sup>3</sup>
	DNEL value	consumers	skin	long-term exposure	108 mg/kg bw/day
	DNEL value	consumers	inhalation	acute exposure	174/m <sup>3</sup>
	DNEL value	consumers	inhalation	long-term exposure	14.8 mg/m <sup>3</sup>
	DNEL value	consumers	ingestion	long-term exposure	1.6 mg/kg bw/day

2-butoxyethyl acetate	DNEL value	workers	skin	long-term exposure – systemic effects	169 mg/kg
	DNEL value	workers	inhalation	long-term exposure – systemic effects	133 mg/m <sup>3</sup>
	DNEL value	workers	skin	acute exposure – systemic effects	120 mg/kg
	DNEL value	workers	inhalation	acute exposure – local effects	333 mg/m <sup>3</sup>
	DNEL value	consumers	skin	acute exposure – systemic effects	72 mg/kg
	DNEL value	consumers	ingestion	acute exposure – systemic effects	36 mg/kg
	DNEL value	consumers	inhalation	acute exposure – local effects	200 mg/m <sup>3</sup>
	DNEL value	consumers	skin	long-term exposure – systemic effects	102 mg/kg
	DNEL value	consumers	inhalation	long-term exposure – systemic effects	80 mg/m <sup>3</sup>
	DNEL value	consumers	ingestion	long-term exposure – systemic effects	8.6 mg/kg

methyl methacrylate	DNEL value	workers	inhalation	long-term exposure	208 mg/m <sup>3</sup>
	DNEL value	consumers	inhalation	long-term exposure	104 mg/m <sup>3</sup>
	DNEL value	workers	skin	long-term exposure	13.67 mg/kg/day
	DNEL value	consumers	skin	long-term exposure	8.2 mg/kg/day
	DNEL value	consumers	ingestion	long-term exposure	0.83 mg/kg/day
	DNEL value	workers	skin	long-term exposure	1.3 mg/kg/day
	DNEL value	consumers	skin	long-term exposure	0.83 mg/kg/day
	DNEL value	workers	inhalation	long-term exposure	4.9 mg/m <sup>3</sup>

**PNEC value:**

butyl acetate	PNEC value	fresh water	0.18 mg/l
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	PNEC value	marine water	0.018 mg/l
	PNEC value	intermittent release	0.36 mg/l
	PNEC value	biological sewage treatment plant	35.6 mg/l
	PNEC value	sediment (fresh water)	0.981 mg/kg
	PNEC value	sediment (marine water)	0.0981 mg/kg
	PNEC value	soil	0.0903 mg/kg
xylene	PNEC value	fresh water	0.327 mg/l
	PNEC value	marine water	0.327mg/l
	PNEC value	sediment (fresh water and marine water)	12.46 mg/kg
	PNEC value	soil	2.31 mg/kg
	PNEC value	sewage treatment plant	6.58 mg/l
ethylbenzene	PNEC value	marine water	0.01 mg/l
	PNEC value	sewage treatment plant	9.6 mg/l
	PNEC value	soil	2.68 mg/kg
2-butoxyethyl acetate	PNEC value	fresh water	0.304 mg/l
	PNEC value	marine water	0.0304 mg/l
	PNEC value	intermittent release	0.56 mg/l
	PNEC value	sewage treatment plant	90 mg/l
	PNEC value	sediment (fresh water)	2.03 mg/kg
	PNEC value	sediment (marine water)	0.203 mg/kg
	PNEC value	soil	0.42 mg/kg
	PNEC value	secondary poisoning	0.06 mg/kg
methyl methacrylate	PNEC value	marine water	0.94 mg/l
	PNEC value	sewage treatment plant	10 mg/l
	PNEC value	soil	1.47 mg/kg
	PNEC value	marine water	0.482 mg/l
	PNEC value	sewage treatment plant	10 mg/l
	PNEC value	soil	0.476 mg/kg

## 8.2. Exposure control

### Technical control measures:

General and local exhaust ventilation. Explosion-proof electrical installation.

### Personal protective measures:

#### Respiratory protection:

If there is no adequate ventilation and vapour concentrations exceeding permissible values it is recommended to use a full face mask with an organic vapor cartridge, filter type A. Other types of respiratory protective equipment may be used, based on a risk assessment made by the user.

#### Eye protection:

Protective goggles / tight safety glasses.

#### Hand protection:

Protective gloves resistant to solvents e.g. of polyethylene nylon (thickness >0,062 mm, penetration time > 480 min). As the product is a mixture consisting of several substances, the resistance of the materials from which the gloves are made cannot be calculated in advance and should therefore be checked before use. Information about the penetration time of the substance should be obtained from the glove manufacturer.

#### Skin protection:

Suitable working clothes.

#### Environmental exposure control:

Prevent the product from entering into sewage system, water and soil.

#### General recommendations related to safety and hygiene:

The personal protective equipment used should meet the requirements of applicable law.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	liquid
<b>Colour:</b>	milky
<b>Odour:</b>	characteristic
<b>Odour threshold:</b>	no data available

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<b>pH:</b>	no data available
<b>Melting/freezing point:</b>	no data available
<b>Boiling point:</b>	125°C
<b>Flash point:</b>	23°C
<b>Auto ignition point:</b>	no data available
<b>Breakdown point:</b>	no data available
<b>Evaporation rate:</b>	no data available
<b>Flammability (solid, gas):</b>	not applicable
<b>Explosion limit:</b>	bottom 1.2 vol.% top 15 vol.% (butyl acetate)
<b>Vapour pressure:</b>	15 hPa w 20°C (butyl acetate)
<b>Vapour density (relative to air):</b>	no data available
<b>Relative density:</b>	app. 1,0 g/cm <sup>3</sup> at 20°C
<b>Solubility (in water):</b>	no data available
<b>n-octanol/water partition coefficient:</b>	2.3 (butyl acetate)
<b>Viscosity:</b>	not applicable
<b>Explosive properties:</b>	no data available
<b>Oxidizing properties:</b>	no data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data.

### 10.2. Chemical stability

The product is stabile under normal conditions.

### 10.3. Possibility of hazardous reactions

No data.

### 10.4. Conditions to be avoided

High temperatures and heat sources.

### 10.5. Incompatible materials

No data.

### 10.6. Hazardous decomposition products

As a result of thermal decomposition, carbon monoxide, carbon dioxide and other toxic gases are generated.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

There are no experimental data on the toxicological properties of the product. The assessment was based on the data concerning the components included in the product.

#### Acute toxicity:

xylene	LD <sub>50</sub> (rat, oral)	>2000 mg/kg
	LC <sub>50</sub> (rat, inhalation)	>20 mg/l/4h
	LD <sub>50</sub> (skin, rabbit)	>2000 mg/kg
butyl acetate	LD <sub>50</sub> (rat, oral)	10760 mg/kg
	LC <sub>50</sub> (rat, inhalation)	23.4 mg/l/h
	LD <sub>50</sub> (rabbit, skin)	>14000 mg/kg
ethylbenzene	LD <sub>50</sub> (rat, oral)	>3500 mg/kg
	LC <sub>50</sub> (rat, inhalation)	>17.2 mg/l/4h
	LD <sub>50</sub> (skin, rabbit)	>15400 mg/kg
2-butoxyethyl acetate	LD <sub>50</sub> (rat, oral)	> 300-<2000 mg/kg
	LC <sub>0</sub> (rat, inhalation)	> 400 ppm/4h
	LD <sub>50</sub> (rabbit, skin)	>100 - 2000 mg/kg
methyl methacrylate	LD <sub>50</sub> (rat, oral)	8400 mg/kg
	LD <sub>50</sub> (rabbit, skin)	>35000 mg/kg
	LC <sub>50</sub> (rat, inhalation)	7093 mg/l/4h

#### Skin corrosion/irritation:

The mixture is classified as causing skin irritation.

#### Serious eye damage/eye irritation:

The mixture is classified as causing eye irritation.

#### Allergic effect on airways or skin:

The mixture is not classified as having allergic effect on skin. No data confirming the hazard.

### Mutagenic effect on germ cells:

The mixture is not classified as mutagenic. No data confirming the hazard.

### Carcinogenic effect:

The mixture is not classified as carcinogenic. No data confirming the hazard.

### Harmful effect on reproduction:

The mixture is not classified as harmful to reproduction. No data confirming the hazard.

### Specific target organ toxicity – single exposure:

The mixture is classified as toxic to target organs – single exposure.

### Specific target organ toxicity – repeated exposure:

The mixture is classified as toxic to target organs – repeated exposure.

### Aspiration hazard:

The mixture is not classified as causing aspiration hazard. No data confirming the hazard.

### Other information:

No data.

## SECTION 12: ECOLOGICAL INFORMATION

There are no experimental data on the ecotoxicological properties of the product. The assessment was based on the data concerning the components included in the product.

### 12.1. Toxicity

butyl acetate	ecotoxicity to fish ( <i>pimephales promelas</i> ) ecotoxicity to invertebrates ( <i>Daphnia sp.</i> ) ecotoxicity to algae ecotoxicity to activated sludge ( <i>Tetrahymena pyriformis</i> )	LC <sub>50</sub> 18 mg/l/96h EC <sub>50</sub> 44 mg/l/48h NOEC 200 mg/l/72h IC <sub>50</sub> 356 mg/l/40h
xylene	acute toxicity to fish acute toxicity to daphnia ( <i>Daphnia magna</i> ) acute toxicity to algae (stunted growth) toxicity to microorganisms chronic toxicity to fish chronic toxicity to daphnia ( <i>Daphnia magna</i> )	LC <sub>50</sub> 2.6 mg/l/96h EC <sub>50</sub> 1 mg/l/48h EC <sub>50</sub> 2.2 mg/l/72h NOEC 157 mg/l/3h NOEC >1.3 mg/l/56days NOEC 0.96 mg/l/7days
ethylbenzene	acute toxicity to algae	ErC <sub>50</sub> 3,5mg/96h
2-butoxyethyl acetate	acute toxicity to fish ( <i>oncorhynchus mykiss</i> ) toxicity to daphnia ( <i>Daphnia magna</i> ) toxicity to daphnia and other aquatic invertebrates ( <i>Ceriodaphnia dubia</i> ) toxicity to aquatic plants ( <i>Pseudokirchne riella subcapitata</i> ) toxicity to aquatic plants ( <i>Pseudokirchne riella subcapitata</i> ) toxicity to bacteria ( <i>Pseudomonas putida</i> ) toxicity to bacteria chronic toxicity to aquatic invertebrates ( <i>Ceriodaphnia dubia</i> )	LC <sub>50</sub> >10-100 mg/l/96h EC <sub>50</sub> > 10-100 mg/l/48h EC <sub>10</sub> 30,4 mg/l/7 days ErC <sub>50</sub> 1570 mg/l/72h EC <sub>0</sub> 300 mg/l/72h EC <sub>10</sub> 720 mg/l/17h IC <sub>50</sub> 900 mg/l 30 min EC <sub>10</sub> 30.4 mg/l/7 days
methyl methacrylate	toxicity to fish toxicity to invertebrates toxicity to algae	LC <sub>50</sub> 243-275 mg/l/96h EC <sub>50</sub> 69 mg/l EC <sub>50</sub> 170 mg/l

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other hazardous effects

No data available.



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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Used packaging and waste product should be delivered to authorised companies. Dispose of according to applicable local and official waste regulations – see section 15.

#### Waste code:

- 08 01 11\*** Waste paints and varnishes containing organic solvents or other dangerous substances.  
**15 01 10\*** Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic or toxic).

#### Waste container code:

- 15 01 02** Plastic packaging.  
**15 01 04** Metallic packaging.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1. UN number)

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class (-es Classification code

#### Warning label no 3

#### 14.4. Packaging group

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code

1263

PAINT or PAINT RELATED MATERIAL

3  
F1



III

no

Not applicable.

1263

PAINT or PAINT RELATED MATERIAL

3  
F1



III

no

1263

PAINT or PAINT RELATED MATERIAL

3  
F1



III

no

Not applicable.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations / legislations specific for the substance or mixture

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Official Journal of the European Union, L 136, 29 May 2007 with following amendments Official. Journal of the. EU L 304 22 November 2007; Official Journal of the EU L 268 09 October 2008; Official Journal of the EU L 46 17 February 2009; Official Journal of the EU L 164 26 June 2009, Official Journal of the EU L 133/1 31 May 2010 with following amendments.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the EU L 353 31 December 2008); with following amendments (adaptation to technical progress 1-13 ATP)
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Official Journal of the EU L 132 29 May 2015 together with the correction ( Official Journal of the EU L 12 17 January 2017).

#### 15.2. Chemical safety assessment

Chemical Safety Assessment has not been carried out for the mixture.

### SECTION 16: OTHER INFORMATION

#### Explanation of hazard statements mentioned in sections 2-15 of the Sheet 2-15:

Flam.Liq.2	Flammable liquid, cat.2
H225	Highly flammable liquid and vapour
Flam.Liq.3	Flammable liquid, cat.3
H226	Flammable liquid and vapour
Asp. Tox 1	Aspiration hazard, cat. 1
H304	May be fatal if swallowed and enters airways
Acute Tox.4	Acute toxicity, cat.4
H302	Harmful if swallowed.
H312	Harmful in contact with skin
H332	Harmful if inhaled
Skin Irrit.2	Skin irritation, cat. 2
H315	Causes skin irritation
Eye Irrit.2	Eye irritation, cat.2
H319	Causes eye irritation
STOT SE 3	Specific target organ toxicity – single exposure, cat.3
H335	May cause respiratory irritation



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H336	May cause drowsiness or dizziness
STOT RE 2	Specific target organ toxicity – repeated exposure, cat.2
H373	May cause damage to organs through prolonged or repeated exposure
EUH066	Repeated exposure may cause skin dryness or cracking

### Explanation of abbreviations:

EC	reference number used in the European Union to identify hazardous substances, in particular those registered in the European Inventory of Existing Chemical Substances (EINECS), or in European List of Notified Chemical Substances (ELINCS), or the list of chemicals listed in 'No-longer polymers'
CAS	a number assigned to a chemical substance in Chemical Abstracts Service
UVBC	substances of unknown or variable composition, complex reaction products or biological materials
MPC	maximum permissible concentration at the workplace - the highest permissible weighted average concentration, whose impact on the employee during 8 hours of work, throughout the entire period of his professional activity, should not cause changes in his state of health and the state of health of his future generations
MPIC	maximum permissible instantaneous concentration - the maximum permissible instantaneous concentration set as an average value that should not cause negative changes in the state of health of the worker and the state of health of his future generations, if it persists in the work environment for no more than 30 minutes during a shift
MPCC	concentration value which, due to the threat to the employee's health or life, cannot be exceeded in the work environment at any time
vPvB	substance, which is very Persistent and very Bio-accumulative
PBT	substance, which is Persistent, Bio-accumulative and toxic
DL <sub>50</sub>	lethal dose - the dose at which deaths of 50% of test animals are observed over a specified period of time
CL <sub>50</sub>	lethal concentration - the concentration at which deaths of 50% of the test animals are observed over a specified period of time
CE <sub>50</sub>	effective concentration - the effective concentration of the substance causing a response at 50% of the maximum value
DNEL	no-harmful level for human health - the level of exposure to a substance not harmful to human health
PNEC	predicted no-effect concentration - the concentration of the substance below which no harmful effects for the environment are expected
PBC	permissible concentration in biological material - the highest permissible level of a specific factor or its metabolite in the relevant biological material or the highest permissible value of an appropriate indicator determining the impact of a chemical agent on the body
BCF	bioconcentration factor - the ratio of the concentration of a substance in the body to its concentration in water at equilibrium
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road)
UN number	four-digit material identification number in the UN Hazardous Materials List, derived from the UN Model Regulations, to which the individual material, mixture or object is classified
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association

### Recommended use

The product is intended for professional use only.

### Other data sources

<http://echa.europa.eu/web/quest/information-on-chemicals/registered-substances>

### Other information:

The product described in the safety data sheet should be stored and used in accordance with good industrial practice and in accordance with all legal regulations. The information and recommendations contained in the safety data sheet are based on our general experience and our latest knowledge, and have been presented in good faith. No part of this publication can be treated as guarantee, warranty or position directly, indirectly or otherwise. In all cases, it is the user's responsibility to determine and verify that the information and recommendations are accurate, sufficient and relevant to the particular case. The user is responsible for creating the conditions for the safe use of the product and he is responsible for the consequences of incorrect use of this product

### Training:

Before working with the product, the user should read the Safety Data Sheet and OHS rules regarding the handling of chemicals, and in particular undergo appropriate workplace training.

**Sheet number:** 040P3L2020V1