

ACRYLIC COAT 2:1 VHS PROFESSIONAL

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

**1.1. Product identification**

ACRYLIC COAT 2:1 VHS PROFESSIONAL  
UFI 6FX0-J0Q1-4003-Q9MN \*

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

Acrylic coat (component A) to be applied with a spray gun. For professional use in car refinish.

**1.3 Data of the safety data sheet supplier**

Przedsiębiorstwo RANAL Sp. z o.o.  
Ul. Łódzka 3  
42-240 Rudniki k. Częstochowy, PL

Tel.: +48 34 329 45 03  
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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 mixture was classified as hazardous according to the regulations in force - see section 15 of the Safety Data Sheet.

**Classification 1272/2008/EC\*:**

Flammable liquids, category 3, H226.

Serious eye damage/eye irritation, category 2, H319.

Skin sensitization, category 1, H317.

Specific Target Organ Toxicity - single exposure, category 3, narcotic effect H336

Hazardous to the aquatic environment, chronic hazard, category 3, H412.

**Adverse effects related to physicochemical properties, effects on human health and the environment\*:**

No further data available.

**2.2. Label elements**

Contains:

Methyl n-amyl ketone; butyl alcohol. \*

Pictograms:



GHS02, GHS07 \*

Signal word: **Warning.** \*

Hazard statements (CLP)\*:

H226 Flammable liquid and vapour. \*

H317 May cause an allergic skin reaction.

H319 Causes eye irritation. \*

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long-lasting effects.

Precautionary statements (CLP)\*:

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

P261 Do not breathe vapours/spray.

P271 Use only outdoors or in a well-ventilated area

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

EUH phrases:

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

Does not contain PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with Annex XIII of REACH.\*

The mixture does not contain any substance(s) included in the list established in accordance with Art. 59 sec. 1 of the REACH Regulation due to endocrine disrupting properties or is not identified as endocrine disrupting in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0,1 % by weight. \*

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

\*

Name	Product identification	%	Classification according to the regulation (EC) no 1272/2008 [CLP]
Butyl acetate the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *	CAS number: 123-86-4 EC number: 204-658-1 Index number: 607-025-00-1 REACH: 01-2119485493-29	20-25	Flam. Liq. 3, H226, STOT SE 3, H336
Methyl n-amyl ketone the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *	CAS number: 110-43-0 EC number: 203-767-1 Index number: 606-024-00-3 REACH: 01-2119902391-49	10-15	Flam. Liq. 3, H226, Acute Tox. 4 (Oral), H302, Acute Tox. 4 (Inhalation), H332
Hydrocarbons, C9, aromatics	EC number: 918-668-5 REACH: 01-2119455851-35	5-10	Flam. Liq. 3, H226, STOT SE 3, H336, STOT SE 3, H335, Asp. Tox. 1, H304, Aquatic Chronic 2, H411
Xylene* the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value * (Note C)	CAS number: 1330-20-7 EC number: 215-535-7 Index number: 601-022-00-9 REACH: 01-2119488216-32	1-2	Flam. Liq. 3, H226, Acute Tox. 4 (Skin), H312, Acute Tox. 4 (Inhalation), H332, Skin Irrit. 2, H315
Post-reaction mass: $\alpha$ -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]propionyl- $\omega$ -hydroxypoly(oxyethylene) and $\alpha$ -3-[3-(2H-benzotriazole)-2-yl)-5-tert-butyl-4-hydroxyphenyl]propionyl- $\omega$ -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl] propionyloxypoly(oxyethylene)	CAS number: 104810-48-2+104810-47-1+ 25322-68-3 EC number: 400-830-7 Index number: 607-176-00-3 REACH: 01-2119472279-28	1.6 *	Skin Sens. 1, H317, Aquatic Chronic 2, H411
Butyl alcohol* The substance has an occupational exposure limit(s) (PL)	CAS number: 71-36-3 EC number: 200-751-6 Index number: 603-004-00-6 REACH: 01-2119484630-38	< 2	Flam. Liq. 3, H226, Acute Tox. 4 (Oral), H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, STOT SE 3, H336, STOT SE 3, H335

Note C\*: Some organic substances are placed on the market as a specific isomer or as a mixture of several isomers. In this case, the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of hazard statements provided in section 16 of the Sheet.

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

General information: See section 11 of the Material Safety Data Sheet.

First aid- after inhalation: If difficulties in breathing occur, remove the victim to fresh air and keep at rest in a position comfortable for breathing. \*

First aid- after skin contact: In case of skin contamination, immediately remove all contaminated clothing and wash contaminated skin with plenty of soap and water. Rinse skin with water/or shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation persists, consult a doctor.\*

First aid- after contact with eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor. In the case of contact with eyes, immediately rinse with plenty of water and get medical advice.\*

First aid- after ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor.\*

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

Vapours may cause drowsiness and dizziness.

Prolonged or repeated contact may cause skin dryness.\*

May cause eye irritation.\*

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

Symptomatic treatment. \*

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

Suitable extinguishing agents: powder, foam resistant to alcohol, carbon dioxide, water mist.

Unsuitable extinguishing media\*: strong jet of water.

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

As a result of a fire, carbon monoxide and other toxic gases are generated.

**5.3. Advice for fire fighters**

Do not intervene without appropriate protective equipment. Self-contained, breathing apparatus. Compete protective clothing. \*

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

For personnel non taking part in emergency procedures: Eliminate all sources of ignition. Provide adequate ventilation. Avoid any direct and indirect contact with released components. Avoid contact with skin and eyes. Use the required personal protective measures. See section 8. \*

For personnel taking part in emergency procedures: Do not intervene without appropriate protective equipment. See section 8.\*

**6.2. Environmental precautions**

Prevent entry into sewage systems, surface waters, groundwater, water bodies and soil, even in small quantities.\*

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

Cover the spilled product with a non-combustible material such as sand, earth, vermiculite. Collect the product mechanically. \*

**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**

Precautions for safe handling\*: Provide good ventilation of the workplace. Keep away from heat sources, hot surfaces, sources of sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protection measures.

Hygiene recommendations\*: Wash contaminated clothes before using them again. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink and smoke when using the product. Wash hands after each contact with the product.

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

Technical measures\*: Ground/bond container and receiving equipment.

Storage conditions\*: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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

No further data available. \*

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

**8.1. Control parameters**

National values of the highest permissible concentrations in the work environment and biological limit values\*:

<b>Xylene (1330-20-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Xylene, mixed isomers, pure
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Poland- The highest permissible concentration at the workplace</b>	
Local name	Xylene mixture of isomers: 1,2-; 1,3-; 1,4-
NDS (OEL TWA)	100 mg/m <sup>3</sup>
NDSch (OEL STEL)	200 mg/m <sup>3</sup>
Regulatory reference	Official Journal 2018 item 1286

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<b>Butyl acetate (123-86-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	n-Butyl acetate
IOEL TWA [ppm]	50 ppm
IOEL STEL	723 mg/m <sup>3</sup>
IOEL STEL [ppm]	150 ppm
Regulatory reference	COMMISSION DIRECTIVE-EU) 2019/ 1831
<b>Poland- The highest permissible concentration at the workplace</b>	
Local name	n-butyl acetate
NDS (OEL TWA)	240 mg/m <sup>3</sup>
NDSCh (OEL STEL)	720 mg/m <sup>3</sup>
Regulatory reference	Official Journal 2018 item 1286
<b>Methyl n-amyl ketone (110-43-0)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Heptan-2-one
IOEL TWA [ppm]	50 ppm
IOEL STEL	475 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Poland- The highest permissible concentration at the workplace</b>	
Local name	Heptane -2-one
NDS (OEL TWA)	238 mg/m <sup>3</sup>
NDSCh (OEL STEL)	475 mg/m <sup>3</sup>
Regulatory reference	Official Journal 2018 item 1286
<b>Butyl alcohol 71-36-3</b>	
<b>Poland- The highest permissible concentration at the workplace</b>	
Local name	Butan-1-ol (n-butyl alcohol)
NDS (OEL TWA)	50 mg/m <sup>3</sup>
NDSCh (OEL STEL)	150 mg/m <sup>3</sup>
Regulatory reference	Official Journal 2018 item 1286

Recommended monitoring procedures\*: No further data available.

Monitoring method\*: EN 482. Exposure at workplaces– general requirements for the characteristics of chemical agents measurement procedures.

DNEL and PNEC\*:

<b>Xylene (1330-20-7)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects after inhalation	289 mg/m <sup>3</sup>
Acute - local effects after inhalation	289 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	180 mg/kg body weight /day
Long - term systemic effects after inhalation	77 mg/m <sup>3</sup>
<b>DNEL/ DMEL (General population)</b>	
Acute - systemic effects after inhalation	174 mg/m <sup>3</sup>
Acute - local effects after inhalation	174 mg/m <sup>3</sup>
Long - term systemic effects after ingestion	1.6 mg/kg body weight /day

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Long - term systemic effects after inhalation	14.8 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	108 mg/kg body weight /day
<b>PNEC (Water)</b>	
PNEC (freshwater)	0.327 mg/l
PNEC (sea water)	0.327 mg/l
PNEC aqua ( intermittent, freshwater)	0.327 mg/l
<b>PNEC (Sediments)</b>	
PNEC sediments (freshwater)	12.46 mg/kg of dry mass
PNEC sediments (sea water)	12.46 mg/kg of dry mass
<b>PNEC (Soil)</b>	
PNEC Soil	2.31 mg/kg of dry mass
<b>PNEC (STP)</b>	
PNEC Sewage Treatment Plant	6.58 mg/l
<b>Butyl acetate (123-86-4)</b>	
<b>PNEC (Water)</b>	
PNEC (freshwater)	0.18 mg/l
PNEC (sea water)	0.018 mg/l
PNEC aqua ( intermittent, freshwater)	0.36 mg/l
<b>PNEC (Sediments)</b>	
PNEC sediments (freshwater)	0.981 mg/kg of dry mass
PNEC sediments (sea water)	0.0981 mg/kg of dry mass
<b>PNEC (Soil)</b>	
PNEC Soil	0.0903 mg/kg of dry mass
<b>PNEC (STP)</b>	
PNEC Sewage Treatment Plant	35.6 mg/l
<b>methyl n-amyl ketone (110-43-0)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects after inhalation	1516 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	54.27 mg/kg body weight /day
Long - term systemic effects after inhalation	394.25 mg/m <sup>3</sup>
<b>DNEL/ DMEL (General population)</b>	
Long - term systemic effects after ingestion	23.32 mg/kg body weight /day
Long - term systemic effects after inhalation	84.31 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	23.32 mg/kg body weight /day
<b>PNEC (Water)</b>	
PNEC (freshwater)	0.0982 mg/l
PNEC (sea water)	0.00982 mg/l
PNEC aqua ( intermittent, freshwater)	0.982 mg/l
<b>PNEC (Sediments)</b>	
PNEC sediments (freshwater)	1.89 mg/kg of dry mass
PNEC sediments (sea water)	0.189 mg/kg of dry mass
<b>PNEC (Soil)</b>	
PNEC Soil	0.321 mg/kg of dry mass
<b>PNEC (STP)</b>	
PNEC Sewage Treatment Plant	12.5 mg/l

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<b>Hydrocarbons, C9, aromatics</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, in contact with skin	25 mg/kg body weight /day
Long - term systemic effects after inhalation	150 mg/m <sup>3</sup>
<b>DNEL/ DMEL (General population)</b>	
Long - term systemic effects after ingestion	11 mg/kg body weight /day
Long - term systemic effects after inhalation	32 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	11 mg/kg body weight /day

Risk management\*: No further data available.

**8.2. Exposure control**

Technical control measures: Provide good ventilation of the workplace.\*

Symbols of personal protective equipment\*:



Eyes protection: Safety glasses.\*

Skin and body protection\*: Appropriate protective clothes.

Hands protection: Protective gloves.\*

Type	Material	Breakthrough time	Thickness (mm)	Penetration	Standards
Disposable gloves	Viton® II	6 (> 480 minutes)	0.7 mm		EN 374-3
Disposable gloves	Nitrile rubber ( NBR)	2 (> 30 minutes)	0.4 mm		EN 374-3

Respiratory protection:

In case of insufficient ventilation, wear suitable breathing apparatus.\*

Equipment	Filter type	Condition	Standard
Gas mask with filter type	Filter A1/B1		EN 14387

Thermal hazards\*: No further data available.

Environmental control: Avoid release to the environment.\*

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties\***

<b>Physical state</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	strong, penetrating
<b>Odour threshold</b>	0.9- 9 mg/m <sup>3</sup> Xylene*
<b>Melting point</b>	not applicable
<b>Freezing point</b>	not available*
<b>Boiling point</b>	120-130°C*
<b>Flammability of the materials*</b>	Not applicable
<b>Explosive properties*</b>	no data
<b>Explosion limits:</b>	not available*
<b>Bottom Explosion limit</b>	1,1 vol. % xylene*
<b>Top Explosion limit</b>	8.0 vol. % xylene*
<b>Flash point</b>	26°C*
<b>Auto ignition point</b>	app.435°C
<b>Breakdown point</b>	no data
<b>pH</b>	not applicable.
<b>Kinematic viscosity*</b>	not available
<b>Solubility</b>	poor
<b>n-octanol/water partition coefficient (LogKow)</b>	not available*
<b>Vapour pressure</b>	9 hPa*
<b>Vapour pressure at 50 °C*</b>	not available
<b>Density</b>	1.0 g/cm <sup>3</sup> (20°C)*
<b>Relative density*</b>	not available*

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**Relative vapour density at 20°C\***

not available\*

**Particle characteristics\***

not applicable

**9.2. Other information**

**Information with regard to physical hazard classes\*:** No further data available.

**Other safety features\*:** No further data available.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

The product is not reactive under normal conditions.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions under normal conditions of use unknown. \*

**10.4 Conditions to be avoided**

Protect against ignition sources. Avoid the accumulation of electrostatic charges (e.g. by grounding). Protect from sunlight. Avoid high temperatures. \*

**10.5 Incompatible materials**

Avoid contact with large amounts of organic peroxides, strong acids and bases, as well as other strong oxidants.

**10.6. Hazardous decomposition products**

No hazardous product shall be formed under normal conditions of storage and use. Thermal decomposition may produce: Carbon monoxide. Other toxic gases. \*

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008\***

**Acute toxicity\*:**

Acute toxicity (oral): Not classified (based on available data the classification criteria are not met).

Acute toxicity (skin): Not classified (based on available data the classification criteria are not met).

Acute toxicity (inhalation): Not classified (based on available data the classification criteria are not met).

<b>Xylene (1330-20-7)</b>	
LD50 oral, rat	3523 mg/kg (rat)
LD50 skin, rabbit	12126 mg/kg body weight Animal: rabbit, Animal sex: male
LC50 inhalation - rat	27124 mg/l
<b>Butyl acetate (123-86-4)</b>	
LD50 oral, rat	12.2 ml/kg Source: ECHA
LC50 inhalation - rat (vapours)	> 4.9 mg/l Source: ECHA
<b>Methyl n-amyl ketone (110-43-0)</b>	
LD50 oral, rat	≈ 1600 mg/kg body weight Animal: rat, Remarks on results: other:
LD50, skin, rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 inhalation - rat	> 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))
LC50 inhalation - rat (vapours)	> 16.7 mg/l Source: ECHA
<b>Hydrocarbons, C9, aromatics</b>	
LD50 skin, rabbit	> 3160 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation - rat	> 6193 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
<b>Butyl alcohol (71-36-3)</b>	
LD50 oral, rat	2292 mg/kg Source: ECHA
LD50 skin, rabbit	3430 mg/kg Source: ECHA

**Skin corrosion/irritation:** Not classified (based on available data the classification criteria are not met)

pH: Not applicable.

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<b>Butyl acetate (123-86-4)</b>	
pH	6.2 Temp.: 20°C Concentration: 5.3 g/L

**Serious eye damage/eye irritation:** Causes eye irritation.  
 pH: Not applicable.

<b>Butyl acetate (123-86-4)</b>	
pH	6.2 Temp.: 20°C Concentration: 5.3 g/L

**Allergic effect on airways or skin:** May cause an allergic skin reaction.  
**Mutagenic effect on germ cells:** Not classified (based on available data the classification criteria are not met).  
**Carcinogenic effect:** Not classified (based on available data the classification criteria are not met).  
**Harmful effect on reproduction:** Not classified (based on available data the classification criteria are not met).  
**Specific target organ toxicity – single exposure:** May cause drowsiness or dizziness.

<b>Butyl acetate (123-86-4)</b>	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.
<b>Hydrocarbons, C9, aromatics</b>	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness. May cause respiratory irritation.
<b>butyl alcohol (71-36-3)</b>	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness. May cause respiratory irritation.

**Specific target organ toxicity – repeated exposure:** Not classified (based on available data the classification criteria are not met). \*

<b>Xylene (1330-20-7)</b>	
LOAEL (oral, rat, 90 days)	150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
<b>Butyl acetate (123-86-4)</b>	
LOAEL (oral, rat, 90 days)	500 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	125 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
<b>Hydrocarbons, C9, aromatics</b>	
NOAEL (oral, rat, 90 days)	600 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
<b>Butyl alcohol (71-36-3)</b>	
LOAEL (oral, rat, 90 days)	500 mg/kg body weight Animal: rat
NOAEL (oral, rat, 90 days)	125 mg/kg body weight Animal: rat

**Aspiration hazard:** Not classified (based on available data the classification criteria are not met).

<b>Butyl acetate (123-86-4)</b>	
Kinematic viscosity	0.83 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
<b>Methyl n-amyl ketone (110-43-0)</b>	
Kinematic viscosity	0.979 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
<b>Butyl alcohol (71-36-3)</b>	
Kinematic viscosity	3.641 mm <sup>2</sup> /s

**11.2. Information on other hazards\***  
 No further data available.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

\*  
 Hazardous for the aquatic environment, short-time (acute): Not classified (based on available data the classification criteria are not met).  
 Hazardous to the aquatic environment, long-term (chronic): Harmful to aquatic life with long-lasting effects.  
 It is not easily degradable.



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<b>Xylene (1330-20-7)</b>	
LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustaceans [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
NOEC for chronic toxicity to fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
<b>Butyl acetate (123-86-4)</b>	
LC50 - Fish [1]	18 mg/l Source: ECHA
EC50 - Crustaceans [1]	44 mg/l Source: ECHA
EC50 - Other aquatic organisms [1]	32 mg/l Test organisms (species): Artemia salina
EC50 72h - Algae [1]	674.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	246 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>methyl n-amyl ketone (110-43-0)</b>	
LC50 - Fish [1]	131 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustaceans [1]	> 90.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	98.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	75.5 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>Hydrocarbons, C9, aromatics</b>	
EC50 72h - Algae [1]	0.42 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
<b>butyl alcohol (71-36-3)</b>	
LC50 - Fish [1]	1376 mg/l Source: ECHA
EC50 - Crustaceans [1]	1983 mg/l Source: ECHA
EC50 96h - Algae [1]	225 mg/l Source: ECHA
NOEC (chronic)	4.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

**12.2. Persistence and degradability**

No further data available. \*

**12.3 Bioaccumulative potential**

<b>Butyl acetate (123-86-4)*</b>	
n-octanol/water partition coefficient (Log Pow):	1.78 Source: HSDB
<b>methyl n-amyl ketone (110-43-0)*</b>	
n-octanol/water partition coefficient (Log Pow):	2.26 Source: ECHA
<b>butyl alcohol (71-36-3)*</b>	
n-octanol/water partition coefficient (Log Pow):	0.9 Source: HSDB

**12.4. Mobility in soil**

No further data available. \*

**12.5 Results of PBT and vPvB assessment**

No data.

**12.6. Endocrine disrupting properties\***

No further data available.

**12.7. Other hazardous effects\***

Harmful to aquatic life with long-lasting effects.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Dispose of according to applicable local and official waste regulations – see section 15.

Product remains:

Waste code: 08 01 11 Do not dispose the product into the sewage system. Must not be disposed of with municipal waste. Remove the remains of the mixture carefully and harden with the use of the proper B component, a (waste) hardener from the set. Hardened product is not a hazardous waste.

**ATTENTION:** Harden the remains in small portions away from flammable products. High amounts of heat are released during chemical reaction!

Contaminated packaging:

Packaging containing unhardened product remains is hazardous waste.

Waste code: 15 01 10. Must not be disposed of with municipal waste. Contaminated container should be handed over to entities, which are authorized to collect, recover or dispose of wastes.

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number or ID number\***

1866

**14.2. UN proper shipping name**

ADR: RESIN, SOLUTION

IMDG\*: RESIN SOLUTION \*

IATA\*: RESIN SOLUTION \*

Description of the shipping document\*:

ADR: UN 1866 RESIN, SOLUTION, 3, III, (D/E)

IMDG: UN 1866 RESIN SOLUTION, 3, III (26°C c.c.)

IATA: UN 1866 Resin solution, 3, III

**14.3. Transport hazard class (-es)**

3



**14.4 Packaging group**

III\*

**14.5. Environmental hazards**

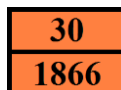
No.

Marine pollutants\*: No.

**14.6. Special precautions for users**

**Road transport\*:**

Classification code (ADR):	F1
Limited Quantities (ADR):	5 I
Special packing provisions (ADR):	PP1
Mixed Packing Regulations (ADR):	MP19
Transport category (ADR):	3
Special provisions for carriage - Packages:	V12



Orange Tiles:

Tunnel restriction code (ADR): D/E

**Sea transport\*:**

Special provisions (IMDG):	223, 955
Limited quantities (IMDG)	5 L
Special packing provisions (IMDG):	PP1
EmS number (Fire):	F-E
EmS number (Spillage):	S-E
Cargo Stowage Category (IMDG):	A

**Air transport\*:**

No data.

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**14.7. Sea transport in bulk in accordance with IMO instruments\***

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

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

EU Provisions\*:

- Annex XVII to the REACH Regulation (restriction conditions): It does not contain substances listed in Annex XVII to the REACH Regulation (restriction conditions).
- Annex XIV to the REACH Regulation (List of Authorizations): It does not contain substances listed in Annex XIV to the REACH Regulation (List of Authorizations).
- REACH Candidate List (SVHC): Contains no substances listed on the REACH Candidate List.
- PIC Regulation (EU 649/2012, Prior Informed Consent): It does not contain substances listed on the PIC list (EU Regulation 649/2012 on the export and import of dangerous chemicals).
- POP Regulation (EU 2019/1021, Persistent Organic Pollutants): It does not contain substances listed on the POP list (EU Regulation 2019/1021 on the export and import of dangerous chemicals).
- Ozone Depletion Regulation (EU 1005/2009): Contains no substances listed in the ozone depleting list (EU Regulation 1005/2009 on substances that deplete the ozone layer).
- Explosives Precursors Regulation (EU 2019/1148): It does not contain substances listed on the list of explosives precursors (EU Regulation 2019/1148 on the marketing and use of explosives precursors).
- Drug Precursors Regulation (EC 273/2004): It does not contain any substance(s) listed on the list of drug precursors (Regulation EC 273/2004 on the manufacture and marketing of certain substances used for the illicit manufacture of narcotic drugs and psychotropic substances).

Other regulations (Poland)\*:

- Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.
- 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
- ADR Agreement: Government Statement of February 18, 2021 on the entry into force of amendments to Annexes A and B of the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957. (Journal of Laws of 2019, , item 874).
- 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 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

**15.2. Chemical safety assessment**

Not performed.

**SECTION 16: OTHER INFORMATION**

**Full text of hazard statements mentioned in section 2 - 15 of the Sheet:**

Acute Tox. 4 (Oral)	Acute toxicity - ingestion- Category 4
Acute Tox. 4 (Skin)	Acute toxicity - (skin), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (after inhalation), category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard, category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long-lasting effects.
H412	Harmful to aquatic life with long-lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3, narcotic effect

**Classification and procedure used to determine the classification of mixtures according to the Regulation (EC) 1272/2008[CLP]**

Flam. Liq. 3	H226	Based on research results
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

**Explanation of abbreviations and acronyms used in the MSDS:**

ADN	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Estimated acute toxicity
BCF	BCF bioconcentration factor
BLV	Quantitative limit value
BOD	Biochemical Oxygen Demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived level causing minimal changes
DNEL	Derived no effect level of
EC number:	- a number ascribed to a chemical substance in the European List of Existing Chemical Substances (EINECS), or a number in the European Inventory of Notified Chemical Substances, mentioned in "No-longer polymers" publication (EINECS) or a number on the list of chemicals listed in 'No-longer polymers'.
EC50	Medium effective concentration
EN	European standard
IARC:	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	The concentration of the substance causing the death of 50% of the population of test organisms
LD50	The Dose causing the death of 50% of the population of test organisms
LOAEL	The lowest level at which harmful changes are observed
NOAEC	Concentration at which no adverse effects are observed
NOAEC	Dose level at which no adverse effects are observed
NOEC	Maximum Concentration at which no adverse effects are observed
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limit value
PBT	substance, which is Persistent, Bio-accumulative and toxic
PNEC	Predicted no-effect concentration
RID	Regulations the international carriage of dangerous goods by rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical Oxygen Demand (ThOD)
TLM	Middle tolerance limit

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VOC	Volatile Organic Compounds
CAS number:	numerical symbol ascribed to a chemical substance by the American organization Chemical Abstracts Service (CAS).
N.O.S.	Not otherwise specified
vPvB	very Persistent and very Bio-accumulative
ED	Endocrine disrupting properties

**Changes in the Sheet:**

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/ 2008: added subsection 11.2.

Information on other hazards

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.3, 6.1, 6.2, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 9.2, 10.3, 10.4, 10.6, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.6, 12.7, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 15.1, 16.

General update.

**Sheet number:** 00-0P1L-0123-V5