

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

1.1. Product identification

CAR BODY PROTECTION AGENT ANTIGRAVITEX SPRAY

UFI:

Y820-30W6-1007-12W6 WHITE

WA20-M0KK-A00Q-PEG8 GREY

2E20-408Y-N006-CS2A BLACK

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

Car body protection agent in spray for professional use in car refinish.

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

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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:

Aerosols, hazard category 1. Extremely flammable aerosol.

Aerosols, hazard categories 1. Container under pressure: may explode if heated.

Skin sensitization, hazard category 1 (Skin Sens. 1). May cause an allergic skin reaction.

Eyes irritation, hazard category 2 (Eye Irrit. 2). Causes serious eye irritation.

Specific Target Organ Toxicity - single exposure, hazard category 3 (STOT SE 3).

May cause drowsiness or dizziness.

Hazardous to the aquatic environment - chronic hazard, category 3, (Aquatic Chronic 3). Harmful to aquatic life with long-lasting effects.

Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Contains*: Propane. Butane. Butanone.

Pictograms:



Signal word: **DANGER.**

Hazard statements (CLP):

H222 Extremely flammable aerosol.
H229 Container under pressure: may explode if heated.
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):

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container - Do not pierce or burn, even after use.
P260 Do not breathe vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

EUH phrases:

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH211* Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.

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. *

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Substance name
Concentration [% weight]
Identification numbers
Classification and labelling

Propane

(Propellant gas (Aerosol)) the substance has occupational exposure limit value(s) (PL). (Note U) *
12.5 - 20 %
EC: 200-827-9
CAS: 74-98-6
Index no: 601-003-00-5
Registration no: 01-2119486944-21-XXXX
Classification 1272/2008/EC: Flam. Gas. 1, H220; Press. Gas. H280.

Xylene

the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value (Note C)*
<10%
EC: 215-535-7
CAS: 1330-20-7
Index no: 601-022-00-9
Registration no: 01-2119488216-32-XXXX
Classification 1272/2008/EC: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit.2, H315.

Butane

(Propellant gas (Aerosol)) the substance has occupational exposure limit value(s) (PL). (Note C) (Note U) *
5 - 10 %
EC: 203-448-7
CAS: 106-97-8
Index no: 601-004-00-0
Registration no: 01-2119474691-32-XXXX
Classification 1272/2008/EC: Flam. Gas. 1, H220; Press. Gas. H280.

Butanone

the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *
5 - 10 %
EC: 201-159-0
CAS: 78-93-3
Index no: 606-002-00-3
Registration no: 01-2119457290-43-XXXX
Classification 1272/2008/EC: Flam. Liq. 2, H225; Eye Irrit. 2; H319; STOT SE 3, H336.

Hydrocarbons C7 n-alkanes, isoalkanes, cyclics*

< 10 %
EC number: 927-510-4
Registration no: 01-2119475515-33
Classification 1272/2008/EC: Flam. Liq. 2, H225 Skin Irrit. 2, H315; STOT SE 3, H336 Asp. Tox. 1, H304, Aquatic Chronic 2, H411.

Butyl acetate

the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *
<5 % *
EC: 204-658-1
CAS: 123-86-4
Index no: 607-025-00-1
Registration no: 01-2119485493-29-XXXX
Classification 1272/2008/EC: Flam. Liq. 3, H226; STOT SE 3, H336; EUH066.

Hydrocarbons, C9, aromatics*

< 5 %
EC number: 918-668-5
Registration no: 01-2119455851-35
Classification 1272/2008/EC: Flam. Liq. 3, H226
STOT SE 3, H336
STOT SE 3, H335
Asp. Tox. 1, H304, Aquatic Chronic 2, H411.

Hydrocarbons C6, isoalkanes, <5% n-hexane *

< 5 %

EC number: 931-254-9

Registration no: 01-2119484651-34

Classification 1272/2008/EC: Flam. Liq. 2, H225 Skin Irrit. 2, H315; STOT SE 3, H336 Asp. Tox. 1, H304, Aquatic Chronic 2, H411.

Rosin

2.5 – 5 %

EC: 232-475-7

CAS: 07/09/8050

Index no: 650-015-00-7

Registration no: 01-2119480418-32-XXXX

Classification 1272/2008/EC: Skin Sens. 1, H317.

Hydrocarbons C7 n-alkanes, isoalkanes, cyclics The substance has an occupational exposure limit(s) (PL)*

< 5 %

EC number: 920-750-0

Registration no: 01-2119473851-33

Classification 1272/2008/EC: Flam. Liq. 2, H225; STOT SE 3, H336 Asp. Tox. 1, H304, Aquatic Chronic 2, H411.

Titanium dioxide [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm]*

The substance has an occupational exposure limit(s) (PL) (Note V) (Note W) (Note 10)

< 2.5 %

CAS number: 13463-67-7

EC number: 236-675-5

Index number: 022-006-00-2

Registration no: 01-2119489379-17

Classification 1272/2008/EC: Carc. 2, H351.

Note 10*: The classification as an inhalation carcinogen applies only to mixtures in the form of a powder containing 1 % or more of titanium dioxide in the form of particles with an aerodynamic diameter of ≤ 10 µm or incorporated in such particles. **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.

Note U*: When placed on the market, gases must be classified as "gases under pressure", in one of the groups of compressed gases, liquefied gases, refrigerated liquefied gases or dissolved gases. The group depends on the physical state in which the gas occurs and therefore must be determined separately for each case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols are not classified as gases under pressure (see Annex I, Part 2, section 2.3.2.1, note 2).

Note V*: If the substance is to be placed on the market as fibres (diameter < 3 µm, length > 5 µm, aspect ratio ≥ 3:1) or as particles of the substance meeting the WHO criteria for fibres or as particles with modified surface chemistry, their hazardous properties should be assessed in accordance with Title II of this Regulation to assess whether a higher category should be applied (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal).

Note W*: A carcinogenic risk associated with this substance has been observed to occur when respirable dust is inhaled in amounts that severely impair the natural mechanisms for clearing particles from the lungs. This note is a description of the specific type of toxicity of the substance, not a criterion for classification under this Regulation.

The product is subject to CLP regulations, article 1.1.3.7. In this case, the disclosure rules are changed.

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.

Airways: If difficulties in breathing occur, remove the victim to fresh air and keep at rest in a position comfortable for breathing. *

Skin: 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. *

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. *

Alimentary tract: Do not induce vomiting (risk of choking). Rinse mouth with water. 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 skin 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: Extinguishing powder, foam resistant to alcohol, carbon dioxide, water mist.
Unsuitable extinguishing media*: a strong stream of water.

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 ignition sources. Provide sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures – see section 8 of the Sheet.

For personnel taking part in emergency procedures:

Persons giving aid should wear protective clothing made of coated impregnated fabric, protective gloves (viton), tight protective glasses and breathing apparatus: gas mask with A type absorber.

6.2. Environmental precautions

Prevent from penetrating into sewage system, surface water, ground water and soil.

6.3. Methods and materials for containment and cleaning up

Stop the leakage (close the liquid inflow, seal), place damaged container in an emergency container, remove the liquid mechanically and place it in an emergency container. In case of large leakage embank the area. In case of small amounts, collect with the use of a binding agent (e.g. mica, diatomaceous earth, sand).

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

Pressurized container. Do not spray onto a naked flames or any incandescent material. Protect against sources of ignition - do not smoke while spraying. Prevent from penetrating into sewage system, surface water, ground water and soil. Use only in well-ventilated rooms. Do not smoke. Do not inhale vapour. Avoid contact with skin and eyes. Take precautionary measures against electrostatic discharges. Use personal protection measures – see section 8 of the Sheet.

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

Pressurized container. Protect from sunlight and temperatures over 50°C. Do not pierce or burn – even after use. Keep ignition sources away - no smoking. Keep out of reach of children. Do not store near large amounts of organic peroxides or other strong oxidants. Take precautionary measures against electrostatic discharges. Store in cool and well-ventilated rooms.

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*:

Xylene (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m ³
IOEL STEL [ppm]	100 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Poland- The highest permissible concentration at the workplace	
Local name	Xylene mixture of isomers: 1,2-; 1,3-; 1,4-
NDS (OEL TWA)	100 mg/m ³
NDSCh (OEL STEL)	200 mg/m ³
Regulatory reference	Official Journal 2018 item 1286
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
Poland- The highest permissible concentration at the workplace	
Local name	Titanium dioxide
NDS (OEL TWA)	10 mg/m ³ inhalable fraction

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Warning	Inhalable fraction - fraction of the aerosol penetrating through the nose and mouth, which, when deposited in the respiratory tract, poses a health risk. Simultaneous determination of concentrations of the respirable crystalline silica fraction is mandatory.
Regulatory reference	Official Journal 2018 item 1286
Butyl acetate (123-86-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Butyl acetate
IOEL TWA [ppm]	50 ppm
IOEL STEL	723 mg/m ³
IOEL STEL [ppm]	150 ppm
Regulatory reference	COMMISSION DIRECTIVE-EU) 2019/ 1831
Poland- The highest permissible concentration at the workplace	
Local name	n-butyl acetate
NDS (OEL TWA)	240 mg/m ³
NDSch (OEL STEL)	720 mg/m ³
Regulatory reference	Official Journal 2018 item 1286
Propane (74 74-98-6)	
Poland- The highest permissible concentration at the workplace	
Local name	Propane
NDS (OEL TWA)	1800 mg/m ³
Regulatory reference	Official Journal 2018 item 1286
Butane (106-97-8)	
Poland- The highest permissible concentration at the workplace	
Local name	Butane (n-butane)
NDS (OEL TWA)	1900 mg/m ³
NDSch (OEL STEL)	3000 mg/m ³
Regulatory reference	Official Journal 2018 item 1286
Butane (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Butanone
IOEL TWA	600 mg/m ³
IOEL TWA [ppm]	200 ppm
IOEL STEL	900 mg/m ³
IOEL STEL [ppm]	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Poland- The highest permissible concentration at the workplace	
Local name	Butan-2-one
NDS (OEL TWA)	450 mg/m ³
NDSch (OEL STEL)	900 mg/m ³
Warning	Skin (Labelling the substance with the notation "skin" means that the absorption of the substance through the skin may be just as important as for exposure through inhalation).
Regulatory reference	Official Journal 2018 item 1286
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Poland- The highest permissible concentration at the workplace	
Local name	Petroleum naphtha
NDS (OEL TWA)	500 mg/m ³
NDSch (OEL STEL)	1500 mg/m ³
Regulatory reference	Official Journal 2018 item 1286

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

Air pollutants formation*: No further data available.

DNEL and PNEC*: No further data available.

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:

Proper protective clothes (coated impregnated fabrics).

Hands protection:

Protective gloves PN-EN 374-3 (viton, thickness 0,7 mm, penetration time >480 min.; Butyl rubber, thickness 0,5 mm, penetration time >480 min.).

Respiratory protection:

Gas mask with A1/ B1 type absorber (EN 14387). *

Environmental control:

Prevent from penetrating into sewage system, surface water, ground water and soil.

Thermal hazards*:

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Physical state	pressurized liquid (aerosol)
Colour	according to specification
Odour	strong, penetrating
Odour threshold	not specified
Melting/freezing point	not applicable
Boiling point	not applicable
Flammability of materials	not applicable
Explosion limits:	% bottom: 1.7 Vol%*, top: 10.9 Vol %
Flash point	not applicable*
Auto ignition point	not applicable
Breakdown point	no data
pH	not available*
Kinematic viscosity	not available*
Solubility (in water)	poor
n-octanol/water partition coefficient (log Kow)	not specified
Vapour pressure	3500 hPa (20°C)
Vapour pressure at 50 °C*	not available*
Density	approx. 0.9 g/cm ³ (20°C)*
Relative density*	not available
Vapour Relative density at 50 °C*	not available*
Particle characteristics*	not applicable

9.2 Other information

Information on the physical hazard classes*:

% of flammable components: 90

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

Pressurized container. Protect from sunlight and temperatures over 50°C. Do not pierce or burn – even after use. Do not spray towards flames or hot material. Keep ignition sources away - no smoking. Keep out of reach of children. Avoid the accumulation of electrostatic charges (e.g. by grounding).

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 decomposition product shall be formed under normal conditions of storage and use*.

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

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).

Xylene (1330-20-7)	
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
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
LC50 inhalation - rat (dust/mist)	> 6.82 mg/l Source: ECHA

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Butyl acetate (123-86-4)	
LD50 oral, rat	12.2 ml/kg Source: ECHA
LC50 inhalation - rat (vapours)	> 4.9 mg/l Source: ECHA
Butane (106-97-8)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm Source: ECHA
Butane (78-93-3)	
LD50 oral, rat	2193 mg/kg Source: ECHA
LD50 skin, rabbit	> 10 mg/kg Source: ECHA
LC50 inhalation - rat (vapours)	32 mg/l Source: RTECS
Hydrocarbons C7 n-alkanes, isoalkanes, cyclics	
LD50, skin, rat	2800 – 3100 mg/kg body weight Animal: rat, Remarks on results: other:
LC50 inhalation - rat	> 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C9, aromatics	
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:
Rosin (8050-09-7)	
LD50 oral, rat	7800 mg/kg Source: IUCLID
LD50, skin, rat	> 2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 skin, rabbit	2500 mg/kg
LC50 inhalation - rat	2.3 mg/l
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
LD50, skin, rat	2800 – 3100 mg/kg body weight Animal: rat, Remarks on results: other:
LC50 inhalation - rat	> 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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

Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
pH	7 Source: ECHA
Butyl acetate (123-86-4)	
pH	6,2 Temp.: 20°C Concentration: 5.3 g/L

Serious eye damage/eye irritation: Causes eye irritation.

Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
pH	7 Source: ECHA
Butyl acetate (123-86-4)	
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: The mixture is not classified as mutagenic. No data confirming the hazard class.

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

Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
IARC Group	2B - May be carcinogenic to humans

Harmful effect on reproduction: The mixture is not classified as having harmful effect on reproduction. No data confirming the hazard class.

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness.*

Butyl acetate (123-86-4)	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.
Butane (78-93-3)	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.
Hydrocarbons C7 n-alkanes, isoalkanes, cyclics	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.
Hydrocarbons, C9, aromatics	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness. May cause respiratory irritation.
Hydrocarbons C6 isoalkanes, <5% n-hexane	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: No data confirming the hazard class.

Xylene (1330-20-7)	
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)
Butyl acetate (123-86-4)	
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)
Hydrocarbons C7 n-alkanes, isoalkanes, cyclics	
LOAEC (inhalation, rat, vapour, 90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEC (inhalation, rat, vapour, 90 days)	3.3 mg/l air Animal: rat, Animal sex: male
Hydrocarbons, C9, aromatics	
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)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
NOAEC (inhalation, rat, vapour, 90 days)	24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard: No data confirming the hazard class.

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Aerosol container	Aerosol
Butyl acetate (123-86-4)	
Kinematic viscosity	0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
Butanone (78-93-3)	
Kinematic viscosity	0.494 mm²/s
Hydrocarbons C7 n-alkanes, isoalkanes, cyclics	
Kinematic viscosity	0.67 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
Hydrocarbons C6 isoalkanes, <5% n-hexane	
Kinematic viscosity	0.46 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
Hydrocarbons , C7-C9 , n-alkanes, isoalkanes, cyclics	
Kinematic viscosity	0.715– 0.786 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/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.
NOT rapidly degradable*.

Xylene (1330-20-7)	
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'
Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 µm](13463-67-7)	
LC50 - Fish [1]	> 100 mg/l
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA
Butyl acetate (123-86-4)	
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'
Butane (106-97-8)	
LC50 - Fish [1]	27.98 mg/l Source: QSAR
EC50 96h - Algae [1]	16.47 mg/l Source: QSAR
Butanone (78-93-3)	
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustaceans [1]	308 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Hydrocarbons C7 n-alkanes, isoalkanes, cyclics	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Hydrocarbons, C9, aromatics	
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)
Rosin (8050-09-7)	
LC50 - Fish [1]	5.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	5.4 mg/l Test organisms (species):
EC50 - Crustaceans [1]	4.5 mg/l
Hydrocarbons , C7-C9 , n-alkanes, isoalkanes, cyclics	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

*

Butyl acetate (123-86-4)	
n-octanol/water partition coefficient (Log Pow):	1.78 Source: HSDB
Butane (106-97-8)	
n-octanol/water partition coefficient (Log Pow):	2.89 Source: ICSC
Butanone (78-93-3)	
n-octanol/water partition coefficient (Log Pow):	0.29 Source: ICSC

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*

No further data available. *

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

Contaminated container should be handed over to entities, which are authorized to collect, recover or dispose of wastes.

Product remains:

Waste code: 08 01 11 – Waste paints and varnishes containing organic solvents or other dangerous substances. Do not discharge the product into the sewage system. Must not be disposed of with municipal waste. Empty the packaging of any residue until the gas pressure completely drops and leave the product to dry freely (only in well-ventilated rooms). Dry product is not a hazardous waste.

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

Contaminated packaging:

Do not pierce or burn, even after use. Packaging containing unhardened product remains is hazardous waste.

Waste code: 15 01 11 – Metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers. Must not be disposed of with municipal waste. The 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*

1950

14.2. UN proper shipping name

ADR AEROSOLS, flammable

IMDG* AEROSOLS

IATA* AEROSOLS, flammable

Description of the shipping document*:

ADR UN 1950 AEROSOLS, 2.1, (D)

IMDG UN 1950 AEROSOLS, 2.1,

IATA UN 1950 Aerosols, flammable, 2.1

14.3 Transport hazard class (-es)

2.1 *

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous: No.

Marine pollutants: No.

14.6. Special precautions for users

Road transport*:

Classification code (ADR):	F5
Limited Quantities (ADR):	1 L
Special packing provisions (ADR):	PP87, RR6, L2
Mixed Packing Regulations (ADR):	MP9
Transport category (ADR):	2
Special provisions for carriage - Packages:	V14
Tunnel restriction code (ADR):	D

Sea transport*:

Special provisions (IMDG):	63, 190, 277, 327, 344, 381, 959
Limited Quantities (IMDG):	SP277
Special packing provisions (IMDG):	PP87, L2
EmS number (Fire): F-D	
EmS number (Spillage): S-U	
Cargo Stowage Category (IMDG):	None

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Storage and handling (IMDG): SW1, SW22
Separation (IMDG): SG69

Air transport:

No data.

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 contains 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).

Name	CN marking	CAS number:	CN code:	Category	Limit	ANNEX
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		ANNEX I

Other regulations*:

- Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878. 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.
- 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).

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 (Skin)	Acute toxicity - (skin), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (after inhalation), category 4
Aerosol 1	Aerosol , Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - chronic hazard, category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1:	Flammable Gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long-lasting effects.
H412	Harmful to aquatic life with long-lasting effects.
Press. Gas (Comp.)	Gases under pressure: Compressed gas
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

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	European Community number
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
VOC	Volatile Organic Compounds
CAS number	CAS number
N.O.S.	Not otherwise specified
vPvB	very Persistent and very Bio-accumulative
ED	Endocrine disrupting properties

Classification was made using the calculation method in accordance with the classification rules contained in Regulation No. 1272/2008 / EC

Classification and procedure used to determine the classification of mixtures according to the Regulation (EC) 1272/2008 [CLP]		
Aerosol 1	H222; H229	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

Other data sources:
ECHA European Chemicals Agency

Directions for training:
Use in accordance with health and safety rules and safety procedures.

The information provided is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. Therefore, they should not be understood as a guarantee of any specific product 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: 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.3, 7.1, 7.3, 8.1, 8.2, 9.1, 9.2, 10.3, 10.6, 11.1, 11.2, 12.1, 12.3, 12.4, 12.6, 12.7, 13.1, 14.1, 14.3, 14.6, 14.7, 15.1, 16. General update.

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