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

1.1. Product identifier
SEALANT AND CAR BODY PROTECTION AGENT 2in1

UFI:	**N911-80G4-700E-JJUS**	**BLACK**
	HD11-S05H-H00W-6WEU	**GREY**
	HF11-80UW-U00E-V80W	**BEIGE**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

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

Tel.: +48 34 329 45 03
Fax: +48 34 320 12 16
Registration number 000029202

Person responsible for the safety data sheet: ranal@ranal.pl

1.4. Emergency telephone number
+48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification according to the Regulation (EC). 1272/2008 [CLP]

Flammable liquids, category 2 H225
Skin corrosion/irritation, category 2 H315
Skin sensitization, category 1 H317
Reproduction toxicity, category 2 H361fd.
Specific target organ toxicity - repeated exposure, category 2 H373
Hazardous to the aquatic environment, chronic toxicity, category 3 H412
Full text of H - and EUH phrases: see section 16

Adverse effects related to physicochemical properties, effects on human health and the environment.
No further data available.

2.2. Label elements
Labelling according to the Regulation (EC). 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP): **Danger**
Contains: toluene

Hazard statements (CLP):
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
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.
P260 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: 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 ≥ 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

Name	Product identification	%	Classification according to the Regulation (EC). 1272/2008 [CLP]
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	15 – 25	Flam. Liq. 3, H226 Acute Tox. 4 (Skin), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
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	7 – 15	Flam. Liq. 3, H226 STOT SE 3, H336
Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] The substance has an occupational exposure limit(s) (PL) (Note P)	CAS number: 64742-49-0 EC number: 265-151-9 Index number: 649-328-00-1 REACH: 01-2119475133-43	4 – 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361fd STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Toluene the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *	CAS number: 108-88-3 EC number: 203-625-9 Index number: 601-021-00-3 REACH: 01-2119471310-51	1 – 9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Rosin	CAS number: 07/09/8050 EC number: 232-475-7 Index number: 650-015-00-7 REACH: 01-2119480418-32	3 – 5	Skin Sens. 1, H317
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)	CAS number: 13463-67-7 EC number: 236-675-5 Index number: 022-006-00-2 REACH: 01-2119489379-17	1 – 5	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 P: Note P: The classification as a carcinogen or mutagen does not need to be applied if it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7). If the substance is not classified as a carcinogen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 apply. This note applies only to certain complex petroleum substances listed in Part 3.
Note V: If the substance is to be placed on the market as fibers (diameter < 3 µm, length > 5 µm, aspect ratio ≥ 3:1) or as particles of the substance meeting the WHO criteria for fibers 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.

Full text of H and EUH phrases: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First aid - general measures: General information. See section 11.

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 and effects, both acute and delayed
Symptoms/effects in the event of inhalation: Vapours may cause drowsiness and dizziness.
Symptoms/effects in the event of skin contact: Prolonged or repeated contact may cause skin dryness.
Symptoms/effects in the event of contact with eyes: May cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing agents: Extinguishing powder, CO2, foam resistant to alcohol or water spray.

Unsuitable extinguishing agents: Do not use strong jets of water.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in the event of fire: Carbon monoxide. Other toxic gases.

5.3. Advice for fire fighters
Protection during firefighting: Do not intervene without appropriate protective equipment. Self-contained, breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non - emergency personnel
Protective equipment: 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.
6.1.2. For emergency responders
Protective equipment: Do not intervene without appropriate protective equipment. See section 8.

6.2. Environmental precautions
Avoid release to the environment. Prevent from entering surface water and sewage system. Do not allow the product to enter groundwater, water reservoirs or sewage systems, even in small quantities.

6.3. Methods and materials for containment and cleaning up
Preventing the spread of contamination: Cover the spilled product with a non-combustible material such as sand, earth, vermiculite. Collect the product mechanically.

6.4. Reference to other sections
Disposal considerations. See section 13.

SECTION 7: HANDLING AND STORAGE

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. Specific end use(s)
No further data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
8.1.1. 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/m³

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/m³
NDSCh (OEL STEL)	200 mg/m³
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/m³
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/m³
NDSCh (OEL STEL)	720 mg/m³
Regulatory reference	Official Journal 2018 item 1286

Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] (64742-49-0)	
Poland- The highest permissible concentration at the workplace	
Local name	Petroleum naphtha
NDS (OEL TWA)	500 mg/m³
NDSCh (OEL STEL)	1500 mg/m³
Regulatory reference	Official Journal 2018 item 1286

Toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA [ppm]	50 ppm
IOEL STEL	384 mg/m³
IOEL STEL [ppm]	100 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Poland- The highest permissible concentration at the workplace	
Local name	Toluene
NDS (OEL TWA)	100 mg/m³
NDSCh (OEL STEL)	200 mg/m³
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/m³ inhalable fraction
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

8.1.2. Recommended monitoring procedures

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

8.1.3. Air pollutants formation
No further data available.

8.1.3. DNEL and PNEC

Xylene (1330-20-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects after inhalation	289 mg/m³
Acute - local effects after inhalation	289 mg/m³
Long-term - systemic effects, in contact with skin	180 mg/kg body weight /day
Long - term systemic effects after inhalation	77 mg/m³
DNEL/ DMEL (General population)	
Acute - systemic effects after inhalation	174 mg/m³

Acute - local effects after inhalation	174 mg/m³
Long - term systemic effects after ingestion	1.6 mg/kg body weight /day
Long - term systemic effects after inhalation	14.8 mg/m³
Long-term - systemic effects, in contact with skin	108 mg/kg body weight /day
PNEC (Water)	
PNEC (freshwater)	0.327 mg/l
PNEC (sea water)	0.327 mg/l
PNEC aqua (intermittent, freshwater)	0.327 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	12,46 mg/kg of dry mass
PNEC sediments (sea water)	12,46 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	2,31 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	6.58 mg/l

Butyl acetate (123-86-4)	
PNEC (Water)	
PNEC (freshwater)	0.18 mg/l
PNEC (sea water)	0.018 mg/l
PNEC aqua (intermittent, freshwater)	0.36 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	0,981 mg/kg of dry mass
PNEC sediments (sea water)	0,0981 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	0,0903 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	35.6 mg/l

Rosin (8050-09-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, in contact with skin	2131 mg/kg body weight/day
Long - term local effects after inhalation	10 mg/m³
DNEL/ DMEL (General population)	
Long - term systemic effects after ingestion	10655 mg/kg body weight/day
Long-term - systemic effects, in contact with skin	10655 mg/kg body weight/day
PNEC (Water)	
PNEC (freshwater)	0.0016 mg/l
PNEC (sea water)	0.00016 mg/l
PNEC aqua (intermittent, freshwater)	0.016 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	0,007 mg/kg of dry mass
PNEC sediments (sea water)	0,0007 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	0,00045 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	1000 mg/l

8.1.5. Risk management
No further data available.

8.2. Exposure controls
8.2.1. Appropriate engineering controls
Technical control measures:
Provide good ventilation of the workplace

8.2.2. Individual protection measures, such as personal protective equipment
Symbols of personal protective equipment:

8.2.2.1. Eye or face protection
Eyes protection:
Safety glasses.

8.2.2.2. Skin protection:
Skin and body protection:
Wear suitable protective clothes.

Hands protection:
Protective gloves.

Hand protection					
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

8.2.2.3. Respiratory protection
Respiratory protection:
In case of insufficient ventilation, wear suitable breathing apparatus.

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

8.2.2.4. Thermal hazards
No further data available

8.2.3. Environmental exposure controls
Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	various colours
Odour	characteristic
Odour threshold	0,9 – 9 mg/m³ Xylene
Melting point	not applicable
Freezing point	not available
Boiling point	60– 110°C
Flammability	not applicable
Explosive properties	no data
Explosion limits	not available
Lower Explosion limit	1,2 vol. % Toluene
Upper Explosion limit	7 vol. % Toluene
Flash point	3°C
Auto - ignition temperature	300°C
Decomposition temperature	not available
pH	not available
Kinematic viscosity	950 mm²/s
Solubility	poorly soluble
Partition coefficient n-octanol/water (log value)	not available
Vapour pressure 3 kPa	toluene
Vapour pressure at 50°C	not available
Density	≈ 1,2 g/cm³
Relative density	not available
Relative vapour density at 20°C	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes
No further data available

9.2.2. Other safety characteristics
No further data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Stable under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
Hazardous reactions under normal conditions of use unknown.

10.4. Conditions to avoid
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 : strong acids, strong bases and 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 (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

Butyl acetate (123-86-4)	
LD50 oral, rat	12.2 ml/kg Source: ECHA
LC50 inhalation - rat (vapours)	> 4,9 mg/l Source: ECHA

Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] (64742-49-0)	
LD50 oral, rat	> 5000 mg/kg Source: IUCLID
LD50 skin, rabbit	> 3160 mg/kg Source: IUCLID
LC50 Inhalation - Rat [ppm]	73680 ppm Source: IUCLID

Toluene (108-88-3)	
LD50 oral, rat	5580 mg/kg Source: ECHA
LD50 skin, rabbit	> 5000 mg/kg Source: ECHA
LC50 inhalation - rat (vapours)	> 20 mg/l Source: ECHA

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

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

Skin corrosion/irritation: Causes skin irritation.

Butyl acetate (123-86-4)	
pH	6,2 Temp.: 20 °C Concentration: 5.3 g/L

Toluene (108-88-3)	
pH	7 Source: chemicalbook

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

Serious eye damage/eye irritation: Not classified (based on available data the classification criteria are not met).

Butyl acetate (123-86-4)	
pH	6,2 Temp.: 20 °C Concentration: 5.3 g/L

Toluene (108-88-3)	
pH	7 Source: chemicalbook

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

Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified (based on available data the classification criteria are not met).
Carcinogenicity: Not classified. (Based on available data the classification criteria are not met).

Toluene (108-88-3)	
IARC Group	3 - Unclassifiable

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

Reproductive toxicity: Suspected of damaging fertility. Suspected of damaging the unborn child
Specific target organ toxicity – single exposure: Not classified. (Based on available data the classification criteria are not met)

Butyl acetate (123-86-4)	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.

Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] (64742-49-0)	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.

Toluene (108-88-3)	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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)

Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] (64742-49-0)	
LOAEC (inhalation, rat, vapour, 90 days)	4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	2355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
Specific target organ toxicity – repeated exposure:	May cause damage to organs through prolonged or repeated exposure.

Toluene (108-88-3)	
Specific target organ toxicity – repeated exposure:	May cause damage to organs through prolonged or repeated exposure.

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

PRODUCT	
Kinematic viscosity	950 mm²/s

Butyl acetate (123-86-4)	
Kinematic viscosity	0.83 mm²/s Temp.: '20°C' 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.
It is not easily 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'

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'

Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] (64742-49-0)	
LC50 - Other aquatic organisms [1]	2.6 mg/l Source: IUCLID
EC50 72h - Algae [1]	32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Source: ECHA

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

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

12.2. Persistence and degradability
No further data available.

12.3. Bioaccumulative potential

Butyl acetate (123-86-4)	
n-octanol/water partition coefficient (Log Pow):	1.78 Source: HSDB

Naphtha (petroleum), hydrotreated light; Hydrotreated low-boiling kerosene fraction; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 to C11 and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).] (64742-49-0)	
n-octanol/water partition coefficient (Log Pow):	2.1 – 6: IUCLID

Toluene (108-88-3)	
n-octanol/water partition coefficient (Log Pow):	2.73 Source: HSDB

12.4. Mobility in soil
No further data available

12.5. Results of PBT and vPvB assessment
No further data available

12.6. Endocrine disrupting properties
No further data available

12.7. Other adverse effects
No further data available

SECTION 13: DISPOSAL CONSIDERATIONS

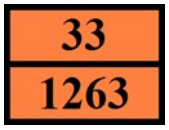
13.1. Waste treatment methods
Local regulations (waste): Dispose of according to applicable regulations.
Waste treatment methods: Dispose of the contents/container as directed by an authorized sorting and collection center.
Waste water disposal recommendations: Do not discharge the product into the sewage system.
Product/packaging disposal recommendations: Dispose of the product and packaging as hazardous waste. Do not dispose of with household waste. After cleaning, recycle or dispose of at an authorized facility.
Additional information: Flammable vapours may accumulate in the container.
European Waste Catalogue 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. plant protection products of I and II toxicity class - very toxic and toxic)

SECTION 14: TRANSPORT INFORMATION

According to ADR/ IMDG/ IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name		
PAINT	PAINT	PAINT
Description of the shipping document		
3	3	3
UN 1263 PAINT, 3, II, (D/E)	UN 1263 PAINT, 3, II (3°C c.c.)	UN 1263 Paint, 3, II
14.3. Transport hazard class (-es)		
3	3	3
		
14.4. Packaging group		
II	II	II
14.5. Environmental hazards		
Environmentally hazardous: No	Environmentally hazardous: No Marine pollutants: No	Environmentally hazardous: No
No further data available		

14.6. Special precautions for user
Road transport
Classification code (ADR): F1
Limited Quantities (ADR): 5 l
Special packing provisions (ADR): PP1
Mixed Packing Regulations (ADR): MP19
Transport category (ADR): 2



Orange Tiles:
Tunnel restriction code (ADR): D/E
Sea transport
Special provisions (IMDG): 163, 367
Limited quantities (IMDG): 5 L
Special packing provisions (IMDG): PP1
EmS number (Fire): F-E
EmS number (Spillage): S-E
Cargo Stowage Category (IMDG): B
Air transport
No data

14.7. Maritime transport in bulk according to IMO instruments
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislations specific for the substance or mixture
15.1.1. 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 persistent organic pollutants)
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
Toluene		108-88-3	2902 30 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
Chemical safety assessment has not been carried out

SECTION 16: OTHER INFORMATION
Changes:
Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.

Explanation of abbreviations and acronyms:	
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

Data sources: ECHA (European Chemicals Agency).
Tips for Training: Use in accordance with health and safety rules and safety procedures.

Full text of H and EUH phrases:	
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
Carc. 2	Carcinogenicity, Category 2
EUH211	Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

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
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H361d	Suspected of damaging the unborn child
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long-lasting effects.
H412	Harmful to aquatic life with long-lasting effects
Repr. 2	Reproduction toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
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. 2	H225	Based on research results
Skin Irrit. 2	H315	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361fd	Expert assessment
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet (SDS), EU

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.

Sheet number: 00-0P1L-1024-V1