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

1.1. Product identification
WASH PRIMER - ANTI-CORROSION REACTIVE PRIMER 1:1
UFI: 0P20-N0C5-J00P-ASTH

1.2. Relevant identified uses of the substance or mixture and uses advised against
Reactive primer (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
Person responsible for the safety data sheet:
ranal@ranal.pl
Tel.: +48 34 329 45 03
Fax: +48 34 320 12 16
Registration number 000029202

Distributor: Ada Color Ltd
st. „Brezovsko shose" 176,
4003 Plovdiv, Bulgaria
Mobile: +359896663052
Tel: +35932940456
Fax:+35932940457
Web: adacolor-bg.com

1.4. Emergency telephone
+48 34 322-28-77 (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:
Skin irritation, hazard category 2 (Skin Irrit. 2). Causes skin irritation.
Serious eye damage/eye irritation, hazard category 1 (Eye Dam. 1). Causes serious eye damage.
Specific Target Organ Toxicity - single exposure, hazard category 3, respiratory irritation (STOT SE 3). May cause respiratory irritation.
Specific Target Organ Toxicity - single exposure, hazard category 3, narcotic effect (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.
Flammable liquids, hazard category 3 (Flam. Liq. 3). Flammable liquid and vapour.

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

2.2. Label elements Contains:

Xylene. Butyl alcohol.

Pictograms:

GHS02 GHS05 GHS07*

Signal word: **DANGER.**

Hazard statements (CLP):

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory 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.
P305 +351 +338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

Xylene
the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value * (Note C)*
15-30%
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.

1-Methoxy-2-propyl acetate
the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *
15-30%
EC: 203-603-9
CAS: 108-65-6
Index no: 607-195-00-7
Registration no: 01-2119475791-29-XXXX
Classification 1272/2008/EC: Flam. Liq. 3, H226.

Butyl alcohol
The substance has an occupational exposure limit(s) (PL)*
15-30%
EC: 200-751-6
CAS: 71-36-3
Index no: 603-004-00-6
Registration no: 01-2119484630-38-XXXX
Classification 1272/2008/EC: Flam. Liq. 3, H226; Acute Tox. 4, H302; STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1; H318; STOT SE 3, H336.

2-methylpropan-1-ol; isobutanol; isobutyl alcohol *
the substance has an occupational exposure limit(s) (PL)*
1-5%
EC: 201-148-0
CAS: 78-83-1
Index no: 603-108-00-1
Registration no: 01-2119484609-23-XXXXX
Classification 1272/2008/EC:
Flam. Liq. 3, H226; STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1; H318; STOT SE 3, H336.

zinc oxide
The substance has an occupational exposure limit(s) (PL)*
<2.5 %
EC: 215-222-5
CAS: 1314-13-2
Index no: 030-013-00-7
Registration no: 01-2119463881-32-XXXX
Classification 1272/2008/EC:
Aquatic Acute 1, H400; Aquatic Chronic 1, H410.

Phenol, hydroxybenzene; monohydroxybenzene; phenyl alcohol *
the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value *
0.1-0.4%
EC: 203-632-7
CAS: 108-95-2
Index no: 604-001-00-2
Registration no: 01-2119471329-32-XXXX
Classification 1272/2008/EC: Muta. 2, H341; Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 3, H301; STOT RE 2, H373; Skin Corr. 1B H314

Specific concentration limit*:
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol *
CAS number: 108-95-2
EC number: 203-632-7
Index number: 604-001-00-2
REACH: 01-2119471329-32

(1 ≤ C< 3) Skin Irrit. 2, H315
(1 ≤C < 3) Eye Irrit. 2, H319
(3 ≤C ≤ 100) Skin Sens. 1B, H314

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.

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: 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: Extinguishing powder, foam resistant to alcohol, carbon dioxide, water mist.
Hazardous decomposition products in the event of a fire*: Do not use strong jets 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
Protection during firefighting*: 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
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
Keep away from heat and ignition sources. 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

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*:

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
1-Methoxy-2-propyl acetate (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Methoxy-1-methylethylacetate
IOEL TWA [ppm]	50 ppm
IOEL STEL	550 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	2-methoxy-1-methylethyl acetate
NDS (OEL TWA)	260 mg/m³
NDSCh (OEL STEL)	520 mg/m³
Regulatory reference	Official Journal 2018 item 1286
butyl alcohol (71-36-3)	
Poland- The highest permissible concentration at the workplace	
Local name	Butan-1-ol (n-butyl alcohol)
NDS (OEL TWA)	50 mg/m³
NDSCh (OEL STEL)	150 mg/m³
Regulatory reference	Official Journal 2018 item 1286
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)	
Poland- The highest permissible concentration at the workplace	
Local name	2-methylpropan-1-ol; (isobutyl alcohol)
NDS (OEL TWA)	100 mg/m³
NDSCh (OEL STEL)	200 mg/m³
Regulatory reference	Official Journal 2018 item 1286

zinc oxide (1314-13-2)	
Poland- The highest permissible concentration at the workplace	
Local name	zinc oxide
NDS (OEL TWA)	5 mg/m³ expressed as Zn: inhalable fraction
NDSCh (OEL STEL)	10 mg/m³ expressed as Zn: inhalable fraction
Regulatory reference	Official Journal 2018 item 1286
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol *(108-95-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Phenol
IOEL TWA [ppm]	2 ppm
IOEL STEL	16 mg/m³
IOEL STEL [ppm]	4 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2009/161/ EU
UE Quantitative limit - value (BLV)	
Local name	Phenol
BLV	120 mg/g creatinine Parameter: phenol - Medium: urine
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
Poland- The highest permissible concentration at the workplace	
Local name	Phenol
NDS (OEL TWA)	7.8 mg/m³
NDSCh (OEL STEL)	16 mg/m³
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*:

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

1-Methoxy-2-propyl acetate (108-65-6)	
DNEL/DMEL (Workers)	
Acute - local effects after inhalation	550 mg/m³
Long-term - systemic effects, in contact with skin	796 mg/kg body weight /day
Long - term systemic effects after inhalation	275 mg/m³
DNEL/ DMEL (General population)	
Long - term systemic effects after ingestion	36 mg/kg body weight /day
Long - term systemic effects after inhalation	33 mg/m³
Long-term - systemic effects, in contact with skin	320 mg/kg body weight /day
Long - term local effects after inhalation	33 mg/m³
PNEC (Water)	
PNEC (freshwater)	0.635 mg/l
PNEC (sea water)	0.0635 mg/l
PNEC aqua (intermittent, freshwater)	6.35 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	3.29 mg/kg of dry mass
PNEC sediments (sea water)	0.329 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	0,29 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	100 mg/l
butyl alcohol (71-36-3)	
DNEL/DMEL (Workers)	
Long - term local effects after inhalation	310 mg/m³
DNEL/ DMEL (General population)	
Long - term systemic effects after ingestion	3.125 mg/kg body weight /day
Long - term local effects after inhalation	55 mg/m³
PNEC (Water)	
PNEC (freshwater)	0.082 mg/l
PNEC (sea water)	0.0082 mg/l
PNEC aqua (intermittent, freshwater)	2.25 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	0.178 mg/kg of dry mass
PNEC sediments (sea water)	0.0178 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	0.015 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	2476 mg/l
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)	
DNEL/DMEL (Workers)	
Long - term local effects after inhalation	310 mg/m³
DNEL/ DMEL (General population)	
Long - term local effects after inhalation	55 mg/m³
PNEC (Water)	
PNEC (freshwater)	0.4 mg/l
PNEC (sea water)	0.04 mg/l
PNEC aqua (intermittent, freshwater)	11 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	1.56 mg/kg of dry mass
PNEC sediments (sea water)	0.156 mg/kg of dry mass

PNEC (Soil)	
PNEC Soil	0,0765 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	10 mg/l
zinc oxide (1314-13-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, in contact with skin	83 mg/kg body weight /day
Long - term systemic effects after inhalation	5 mg/m³
Long - term local effects after inhalation	0.5 mg/m³
DNEL/ DMEL (General population)	
Long - term systemic effects after ingestion	0.83 mg/kg body weight /day
Long - term systemic effects after inhalation	2.5 mg/m³
Long-term - systemic effects, in contact with skin	83 mg/kg body weight /day
PNEC (Water)	
PNEC (freshwater)	20.6 µg/l
PNEC (sea water)	6.1 µg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	117.8 mg/kg of dry mass
PNEC sediments (sea water)	56.5 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	35.6 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	100 µg/l
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)	
DNEL/DMEL (Workers)	
Acute - local effects after inhalation	16 mg/m³
Long-term - systemic effects, in contact with skin	1.23 mg/kg body weight /day
Long - term systemic effects after inhalation	8 mg/m³
DNEL/ DMEL (General population)	
Long - term systemic effects after ingestion	0.4 mg/kg body weight /day
Long - term systemic effects after inhalation	1.32 mg/m³
Long-term - systemic effects, in contact with skin	0.4 mg/kg body weight /day
PNEC (Water)	
PNEC (freshwater)	0.0077 mg/l
PNEC (sea water)	0.00077 mg/l
PNEC aqua (intermittent, freshwater)	0.031 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	0.0915 mg/kg of dry mass
PNEC sediments (sea water)	0.00915 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	0.136 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	2.1 mg/l

Risk management*: No further data available.

8.2. Exposure control

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

Symbols of personal protective equipment*:

Eye or face 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. nitrile rubber, thickness 0.4 mm, penetration time >30 min.).

Respiratory protection*: In case of insufficient ventilation, wear suitable breathing apparatus.
Gas mask with A1/ B1 type absorber (EN 14387).

Workplace: Local extractors and general ventilation.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Physical state	liquid
Colour	red
Odour	strong, penetrating
Odour threshold	0.9 – 9 mg/m³ Xylene*
Melting/freezing point	not applicable
Boiling point	108-145°C
Flammability of materials	not applicable
Explosive properties	not applicable
Explosion limits	bottom: 1.1 Vol %, top: 8.0 Vol% (xylene)*
Flash point	24°C
Auto ignition point	app.300°C
Breakdown point	no data
pH	not applicable.
Kinematic viscosity*	not available
Dynamic viscosity*	400 – 2000 mPas
Solubility (in water)	poor
n-octanol/water partition coefficient (log Kow*)	not available*
Vapour pressure	6.6 hPa (20°C) (Butyl alcohol)
Vapour pressure at 50 °C*	not available
Density	approx. 1.2 g/cm³ (20°C)
Relative density*	not available
Relative density at 20°C*	not available
Particle characteristics*	not applicable

9.2. Other information
No data.

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
Flammable product. Avoid contact with strong oxidants, peroxides, strong acids and bases. Avoid generation and accumulation of static electricity. Protect from sunlight and heat sources.

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 (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
1-Methoxy-2-propyl acetate (108-65-6)*	
LD50, skin, rat	> 2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
butyl alcohol (71-36-3)*	
LD50 oral, rat	2292 mg/kg Source: ECHA
LD50 skin, rabbit	3430 mg/kg Source: ECHA
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)*	
LD50 oral, rat	2460 mg/kg Source: ECHA
LD50 skin, rabbit	2460 mg/kg Source: ECHA
LC50 inhalation - rat (vapours)	19.6 mg/l Source: ECHA
zinc oxide (1314-13-2)*	
LD50 oral, rat	> 5000 mg/kg Source: ECHA
LD50, skin, rat	> 2000 mg/kg Source: ECHA
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)*	
LD50 oral, rat	340 mg/kg Source: ECHA
LD50 skin, rabbit	660 mg/kg Source: ECHA

Skin corrosion/irritation: Causes skin irritation.

zinc oxide (1314-13-2)*	
pH	6.95 Source: HSDB
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)*	
pH	6 Source: HSDB

Serious eye damage/eye irritation: Causes serious eye damage.

zinc oxide (1314-13-2)*	
pH	6.95 Source: HSDB
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)*	
pH	6 Source: HSDB

Allergic effect on airways or skin: Not classified (based on available data the classification criteria are not met). *

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.

Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)*	
IARC Group	3 - Unclassifiable

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 respiratory irritation. May cause drowsiness or dizziness.

butyl alcohol (71-36-3)*	
Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness. May cause respiratory irritation.
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)*	
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).

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)

1-Methoxy-2-propyl acetate (108-65-6)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (Skin, rat /rabbit, 90 days)	> 1000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
butyl alcohol (71-36-3)*	
LOAEL (oral, rat, 90 days)	500 mg/kg body weight Animal: rat
NOAEL (oral, rat, 90 days)	125 mg/kg body weight Animal: rat
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)	
NOAEL (oral, rat, 90 days)	> 1450 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
zinc oxide (1314-13-2)*	
LOAEL (Skin, rat /rabbit, 90 days)	75 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEL (oral, rat, 90 days)	31.52 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)*	
LOAEL (Skin, rat /rabbit, 90 days)	260 mg/kg body weight Animal: rabbit
NOAEL (Skin, rat /rabbit, 90 days)	130 mg/kg body weight Animal: rabbit
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).

butyl alcohol (71-36-3)*	
Kinematic viscosity	3.641 mm²/s
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)*	
Kinematic viscosity	38702.757 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'
1-Methoxy-2-propyl acetate (108-65-6)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustaceans [1]	> 500 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC for chronic toxicity to fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
butyl alcohol (71-36-3)	
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'
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)	
LC50 - Fish [1]	1430 mg/l Test organisms (species): Pimephales promelas

EC50 - Crustaceans [1]	1100 mg/l Test organisms (species): Daphnia pulex
EC50 72h - Algae [1]	593 mg/l Source: ECHA
NOEC (chronic)	20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)	
LC50 - Fish [1]	8.9 mg/l Source: ECHA
EC50 - Crustaceans [1]	3.1 mg/l Test organisms (species): Ceriodaphnia dubia
EC50 72h - Algae [1]	180 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 72h - Algae [2]	217.6 mg/l Test organisms (species): Dunaliella tertiolecta
EC50 96h - Algae [1]	61.1 mg/l Source: ECHA
NOEC (chronic)	0.16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'
NOEC for chronic toxicity to fish	0.077 mg/l Test organisms (species): other: Duration: '60 d'

12.2. Persistence and degradability
No data.

12.3. Bioaccumulative potential

butyl alcohol (71-36-3)	
n-octanol/water partition coefficient (Log Pow):	0.9 Source: HSDB
2-methylpropan-1-ol; isobutanol; isobutyl alcohol (78-83-1)	
n-octanol/water partition coefficient (Log Pow):	0.8 Source: ChemIDPlus
Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)	
n-octanol/water partition coefficient (Log Pow):	1.47 Source: ECHA

12.4. Mobility in soil

Phenol; hydroxybenzene; monohydroxybenzene; phenyl alcohol (108-95-2)	
Mobility in soil	14 – 73: ECHA

12.5. Results of PBT and vPvB assessment
No data.

12.6. Endocrine disrupting properties*
No data.

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. 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.
CAUTION: 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*. Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic and toxic). 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*
1263

14.2. UN proper shipping name
ADR*: PAINT
IMDG*: PAINT
IATA*: PAINT

Description of the shipping document:
ADR: UN 1263 PAINT, 3, III, (D/E)
IMDG: UN 1263 PAINT, 3, III (24°C c.c.)
IATA: UN 1263 Paint, 3, III

14.3. Transport hazard class (-es)
3

*

14.4 Packaging group
III

14.5. Environmental hazards
Environmentally hazardous: No
Marine pollutants: No.

14.6. Special precautions for users

Road transport*:

Classification code (ADR):	F1
Limited Quantities (ADR):	5 l
Special packing provisions (ADR):	PP1
Mixed Packing Regulations (ADR):	MP19
Transport category (ADR):	3
Special provisions for carriage - Packages:	V12
Orange Tiles:	30 1263
Tunnel restriction code (ADR):	D/E

Sea transport*:

Special provisions (IMDG):	163, 223, 367, 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

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*:
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. 3 (Oral)	Acute toxicity - ingestion– Category 3
Acute Tox. 3 (Skin)	Acute toxicity - (skin), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (after inhalation), category 3
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 1	Hazardous to the aquatic environment–acute hazard, category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment– chronic hazard, category 1
Eye Dam. 1	Serious eye damage/eye irritation, category 1
Eye Irrit. 2	Serious eye damage/eye irritation, category 2
Flam. Liq. 3	Flammable liquid, category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Harmful in contact with skin.
H312	Harmful in contact with skin.
H314	Causes serious skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long-lasting effects.
Muta. 2	Mutagenic effect on germ cells, category 2
Skin Corr. 1B	Skin corrosion/irritation, category 1, subcategory 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
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
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
NOAEL 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 Concerning the International Transport of Dangerous Goods by Rail
SDS Material Safety 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 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

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

Other data sources:
ECHA European Chemicals Agency
TOXNET Toxicology Data Network

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:
2.1, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.3, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 10.3, 10.6, 11.1, 11.2, 12.1, 12.6, 12.7, 14.1, 14.2, 14.3, 14.5, 14.6, 14.7, 15.1, 16.
General update.

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