

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

1.1. Product identification ANTI-CORROSIVE EPOXY PPRIMER 1:1

UFI: 4MU0-U0WX-000S-V1DH GREY HQU0-C0MA-A008-JCYK GRAPHITE DTU0-V09Q-M00R-6QJN BLACK

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

+48 34 329 45 03 (8.00 - 15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as hazardous according to the regulations in force - see section 15 of the Safety Data Sheet.

Classification 1272/2008/EC*:

Flammable liquids, category 2, H225 Skin corrosion/irritation, category 2, H315 Serious eye damage/eye irritation, category 1, H318 Skin sensitization, category 1, H317 Carcinogenicity, category 2, H351 Hazardous to the aquatic environment, chronic hazard, 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

Contains: Butyl alcohol; isobutyl methyl ketone.*

Pictograms:



GHS02 GHS07 GHS05 GHS08 Signal word: DANGER.

Hazard statements (CLP):

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H351 Suspected of causing cancer. *
- H412 Harmful to aquatic life with long-lasting effects.

Precautionary statements (CLP):

| incountionary brac | | |
|--------------------|---|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | |
| P261 | Do not breathe vapours/spray. | |
| P272 | Contaminated work clothing should not be allowed out of the workplace.* | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
| P305 +351 +338 | IF IN EYES: Rinse continuously 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. | |

EUH phrases*:

EUH211 - Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour.* EUH205 - Contains epoxy components. May cause an allergic reaction.*

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

| Name | Product identification | % | Classification according to the regulation (EC) no 1272/2008[CLP] |
|--|--|--------|---|
| Reaction product: bisphenol A with epichlorohydrin; Epoxy resin (molecular weight ≤700) * | EC: 500-033-5 CAS: 25068-38-6 Index no: 603-074-00-8 Registration no: 01-2119456619-26-XXXX | 14-23* | Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411. |
| Xylene the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value * (Note C) | EC: 215-535-7 CAS: 1330-20-7 Index no: 601-022-00-9 Registration no: 01-2119488216-32-XXXX | 10-20 | Flam. Liq. 3, H226; Acute Tox. 4 (Inhalation*), H332; Acute Tox. 4 (Skin*), H312; Skin Irrit. 2, H315. |
| Titanium dioxide*; [as a powder with 1% or more of particles with an aerodynamic diameter of $\leq 10 \ \mu$ m] the substance has an occupational exposure limit(s) (PL)* (Note V)(Note W)(Note 10) | EC: 236-675-5 CAS: 13463-67-7 Index no: 022-006-00-2 Registration no: 01-2119489379-17 | < 13 * | Carc. 2*, H351 * |
| Methyl isobutyl ketone the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value * | EC: 203-550-1 CAS: 108-10-1 Index no: 606-004-00-4 Registration no: 01-2119473980-30-XXXX | 4-8* | Flam. Liq. 2, H225; Acute Tox. 4 (Inhalation*), H332; Eye Irrit. 2, H319; Carc. 2*, H351*; STOT SE 3, H335. |
| Butyl alcohol The substance has an occupational exposure limit(s) (PL)* | EC: 200-751-6 CAS: 71-36-3 Index no: 603-004-00-6 Registration no: 01-2119484630-38-XXXX | 2-4.5* | Flam. Liq. 3, H226; Acute Tox. 4 (Oral*), H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335; STOT SE 3, H336; |

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 \leq 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 V: If the substance is to be placed on the market as fibers (diameter < $3 \mu m$, length > $5 \mu m$, aspect ratio $\ge 3:1$) 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 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: Immediately wash with plenty of water for about 15 minutes, avoid strong stream of water - danger of cornea damage. Consult a doctor.

Alimentary tract:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor.* First aiders should wear medical gloves.

4.2. Most important symptoms both acute and delayed

Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. 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

Extinguishing powder, foam resistant to alcohol, carbon dioxide, water mist. Do not use strong jets of water.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case 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. Compete protective clothing.*

SEKCJA 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 and indirect* 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:

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

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

6.4. Reference to other sections

Personal protection measures - see section 8 of the Sheet. Disposal considerations - see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Precautions for safe handling*:

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

Hygiene recommendations*:

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures*: Ground/bond container and receiving equipment. Storage conditions*: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Special end use (s)

No further data available.*

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

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

| 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 |



| Xylene (1330-20-7) | |
|---------------------------------------|--|
| Warning | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Poland- The highest permis | ssible 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 |
| butyl alcohol 71-36-3 | |
| Poland- The highest permis | ssible concentration at the workplace |
| Local name | Butan-1-ol (n-butyl alcohol) |
| NDS (OEL TWA) | 50 mg/m ³ |
| NDSCh (OEL STEL) | 150 mg/m ³ |
| Regulatory reference | Official Journal 2018 item 1286 |
| Methyl isobutyl ketone (10 | 8-10-1) |
| EU - Indicative Occupation | al Exposure Limit (IOEL) |
| Local name | 4-Methylpentan-2-one |
| IOEL TWA [ppm] | 20 ppm |
| IOEL STEL | 208 mg/m ³ |
| IOEL STEL [ppm] | 50 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Poland- The highest permis | ssible concentration at the workplace |
| Local name | 4-Methylpentan-2-one (methylisobutylketone, hexone) |
| NDS (OEL TWA) | 83 mg/m ³ |
| NDSCh (OEL STEL) | 200 mg/m ³ |
| Regulatory reference | Official Journal 2018 item 1286 |
| Titanium dioxide; [as a pov | wder with 1% or more of particles with an aerodynamic diameter of \leq 10 µm](13463-67-7) |
| Poland- The highest permis | ssible concentration at the workplace |
| Local name | Titanium dioxide |
| NDS (OEL TWA) | 10 mg/ m ³ 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 |
| · · · · · · · · · · · · · · · · · · · | |

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/ PNEC*: | |
|--|----------------------------|
| Xylene (1330-20-7) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects after inhalation | 289 mg/m ³ |
| Acute - local effects after inhalation | 289 mg/m ³ |
| Long-term - systemic effects, in contact with skin | 180 mg/kg body weight /day |
| Long - term systemic effects after inhalation | 77 mg/m ³ |
| DNEL/ DMEL (General population) | |
| Acute - systemic effects after inhalation | 174 mg/m³ |
| Acute - local effects after inhalation | 174 mg/m ³ |
| Long - term systemic effects after ingestion | 1.6 mg/kg body weight /day |
| Long - term systemic effects after inhalation | 14.8 mg/m ³ |
| Long-term - systemic effects, in contact with skin | 108 mg/kg body weight /day |





| Xylene (1330-20-7) | |
|-----------------------------|-----------------------|
| PNEC (Soil) | |
| PNEC Soil | 1.3 mg/kg of dry mass |
| PNEC (STP) | |
| PNEC Sewage Treatment Plant | 27.5 mg/l |

Risk management*: No further data available.

8.2. Exposure control

Workplace: Local extractors and general ventilation.

Symbols of personal protective equipment*:



Eyes protection: Tight protective glasses.

Skin and body protection*:

Proper protective clothes (coated impregnated fabrics).

Hands protection:

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

Respiratory protection:

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

Thermal hazards*: No further data available.

Environmental control Avoid release to the environment.*

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

| Physical state | viscous liquid |
|---|---|
| Colour | light yellow |
| Odour | strong, penetrating |
| Odour threshold | 0.9-9 mg/m ³ (xylene) |
| Melting point | not applicable* |
| Freezing point | not available* |
| Boiling point | 114-143°C |
| Flammability of the materials | Not applicable.* |
| Explosive properties | no data* |
| Explosion limits: | % bottom: 1.1 Vol %, top: 8.0 Vol% (xylene) |
| Flash point | 14°C |
| Auto ignition point | app.440°C |
| Breakdown point | not available* |
| рН | not available* |
| Kinematic viscosity* | not available* |
| Solubility (in water) | poor* |
| n-octanol/water partition coefficient (log Kow) | not available* |
| Vapour pressure | 9 hPa (20°C) (xylene) |
| Vapour pressure at 50 °C* | not available |
| Density | approx. 1,5 g/cm ³ (20°C) |
| Relative density* | not available |
| Relative vapour 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

Highly 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 (dermal)*: 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 |
| reaction product: bisphenol A with epichlorohyd | rin; epoxy resin (average molecular weight ≤ 700) (25068-38-6) |
| LD50 oral, rat | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) |
| LD50, skin, rat | > 2000 mg/kg Source: CHEMIDPLUS |
| butyl alcohol (71-36-3) | |
| LD50 oral, rat | 2292 mg/kg Source: ECHA |
| LD50 skin, rabbit | 3430 mg/kg Source: ECHA |
| Methyl isobutyl ketone (108-10-1) | |
| LD50 oral, rat | 2080 mg/kg Source: ECHA |
| LD50 skin, rabbit | ≥ 2000 mg/kg Source: ECHA |
| LC50 inhalation - rat (vapours) | 11.6 mg/l Source: ECHA |
| 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 |

* current data in the table

Skin corrosion/irritation: Causes skin irritation.

| reaction product: bisphenol A with epichlorohydrin; epoxy resin (average molecular weight ≤ 700) (25068-38-6) | | |
|---|----------------|--|
| рН | 4.5 - 4.7 | |
| Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 μm](13463-67-7) | | |
| рН | 7 Source: ECHA | |
| * current data in the table | | |

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

| reaction product: bisphenol A with epichlorohydrin; epoxy resin (average molecular weight \leq 700) (25068-38-6) | | |
|--|----------------|--|
| pH 4.5 - 4.7 | | |
| Titanium dioxide; [as a powder with 1% or more of particles with an aerodynamic diameter of ≤10 μm](13463-67-7) | | |
| рН | 7 Source: ECHA | |

* current data in the table



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: Suspected of causing cancer.*

| Methyl isobutyl ketone (108-10-1) | | |
|---|------------------------------------|--|
| IARC Group | 2B - May be carcinogenic to humans | |
| 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 | |

* current data in the table

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

| butyl alcohol (71-36-3) | | |
|--|------------------------------------|--|
| Specific target organ toxicity – single exposure: May cause drowsiness or dizziness. May cause respiratory irritation. | | |
| Methyl isobutyl ketone (108-10-1) | | |
| Specific target organ toxicity – single exposure: | May cause drowsiness or dizziness. | |
| | | |

* current data in the table

i) Specific target organ toxicity - repeated exposure: Not classified (based on the 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) |
| 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 |
| Methyl isobutyl ketone (108-10-1) | |
| LOAEL (oral, rat, 90 days) | 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | 4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

irrent data in the table

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 | |
| * current data in the table | | |

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' | |
| reaction product: bisphenol A with epichlo1rohydrin; epoxy resin (average molecular weight ≤ 700) (25068-38-6) | | |
| LC50 - Fish [1] | 1.41 mg/l Source: National Institute of Technology and Evaluation | |
| EC50 - Crustaceans [1] | \approx 2 mg/l Test organisms (species): Daphnia magna | |



| 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' | |
| Methyl isobutyl ketone (108-10-1) | | |
| LC50 - Fish [1] | > 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) | |
| EC50 - Crustaceans [1] | > 200 mg/l Test organisms (species): Daphnia magna | |
| 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 | |

* current data in the table

12.2 Persistence and degradability

No data.

12.3. Bioaccumulative potential

| reaction product: bisphenol A with epichlorohydrin; epoxy resin (average molecular weight \leq 700) (25068-38-6) | | |
|--|-------------------------|--|
| n-octanol/water partition coefficient (Log Pow): 2.821 Source: National Institute of Technology and Evaluation | | |
| butyl alcohol (71-36-3) | | |
| n-octanol/water partition coefficient (Log Pow): 0.9 Source: HSDB | | |
| Methyl isobutyl ketone (108-10-1) | | |
| n-octanol/water partition coefficient (Log Pow): | 1.31 Source: ChemIDPlus | |

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.

Waste treatment methods*: Dispose of the contents/container as directed by an authorized sorting and collection centre. 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.

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 (waste) 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

| According | to | | | τΛΤΛ· |
|-----------|----|------|-------|-------|
| ACCOLUIU | ιυ | ADR/ | INDG/ | IATA: |

| ADR | IMDG | ΙΑΤΑ |
|--|--|-------------------------------|
| 14.1. UN number or ID number | | |
| UN1263 | UN1263 | UN1263 |
| 14.2. UN proper shipping name | | |
| PAINT | PAINT | PAINT |
| Description of the shipping document*: | | |
| UN 1263 PAINT, 3, II, (D/E) | UN 1263 PAINT, 3, II (24°C c.c.) | UN 1263 Paint, 3, II |
| 14.3. Transport hazard class (-es) | | |
| 3 | 3 | 3 |
| | | |
| 14.4. Packaging group | | |
| п | п | п |
| 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 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):



163, 367 5 L PP1 F-E S-E B

Orange Tiles: Tunnel restriction code (ADR):

Sea transport*:

| Special provisions (IMDG): |
|------------------------------------|
| Limited Quantities (IMDG): |
| Special packing provisions (IMDG): |
| EmS number (Fire): |
| EmS number (Spillage): |
| Cargo Stowage Category (IMDG): |

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)



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 on 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)

National regulations – Poland:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- 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

| 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 |
| ΙΑΤΑ | 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 |



| Explanation of abbreviations and acronyms: | | | |
|--|---|--|--|
| 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 | | |

Other data sources:

ECHA European Chemicals Agency **TOXNET** Toxicology Data Network

Directions for training*:

Use in accordance with health and safety rules and safety procedures.

| Full text of H and EUH phrases: | | | | | |
|---------------------------------|---|--|--|--|--|
| Acute Tox. 4 (Oral) | Acute toxicity - ingestion- Category 4 | | | | |
| Acute Tox. 4 (Skin) | Acute toxicity - (skin), Category 4 | | | | |
| Acute Tox. 4 (Inhalation) | Acute toxicity (after inhalation), category 4 | | | | |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - chronic hazard, category 2 | | | | |
| Carc. 2 | Carcinogenicity, Category 2 | | | | |
| EUH205 | Contains epoxy components. May cause an allergic reaction. | | | | |
| EUH211 | Warning! Hazardous respirable droplets may form if sprayed. Do not breathe spray or vapour. | | | | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | | | | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | | | | |
| 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. | | | | |
| H302 | Harmful if swallowed. | | | | |
| H312 | Harmful in contact with skin. | | | | |
| H315 | Causes skin irritation. | | | | |
| H317 | May cause an allergic skin reaction. | | | | |
| H318 | Causes serious eye damage. | | | | |
| H319 | Causes serious eye irritation. | | | | |
| H332 | Harmful if inhaled. | | | | |
| H335 | May cause respiratory irritation. | | | | |
| 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. | | | | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | | | | |
| Skin Sens. 1 | Skin sensitization, Category 1 | | | | |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3, narcotic effect | | | | |

| Classification and procedure used to determine the classification of mixtures according to the Regulation (EC) 1272/2008[CLP] | | | | |
|---|------|---------------------------|--|--|
| Flam. Liq. 2 | H225 | Based on research results | | |
| Skin Irrit. 2 | H315 | Calculation method | | |
| Eye Dam. 1 | H318 | Calculation method | | |
| Skin Sens. 1 | H317 | Calculation method | | |
| Carc. 2 | H351 | Calculation method | | |
| Aquatic Chronic 3 | H412 | Calculation method | | |

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:

- 11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/2008 12: new subsection 12.6: Endocrine disrupting properties.
- 14: rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections: 1.1, 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.1, 6.2, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 10.3, 10.6, 11.1, 11.2, 12.1, 12.4, 12.6, 12.7, 13.1, 14.2, 14.6, 14.7, 15.1, 16. General update.

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