

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

#### 1.1. Product identification

**RUST CONVERTER**

**UFI: 9AV0-W0F3-F00Q-5S21**

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

No further relevant information available.

#### Use of the substance/mixture:

Protective coating.

#### 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 34 322 28 77 (8.00 -15.00)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture.

Classification according to the regulation (EC) no 1272/2008:



GHS02 flame

Flam. Liq. 3

H226

Flammable liquid and vapour.



GHS08 health hazard\*

STOT RE 2

H373

May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1

H304

May be fatal if swallowed and enters airways.

GHS09 environment

Aquatic Chronic 2 H411

Toxic to aquatic life with long-lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Eye Irrit. 2 H319 Causes eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

#### 2.2. Label elements

Classification according to the regulation (EC) no 1272/2008:

The product has been classified and labelled according to CLP regulation.

Pictograms:



GHS02

GHS07

GHS08

GHS09

Signal word: **DANGER.**

Label elements specifying the type of hazard:

Hydrocarbons C9, aromatics. Aliphatic polyisocyanate\*. Xylene Butyl acetate\*.

Hazard statements\*:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes eye irritation.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long-lasting effects.

**RUST CONVERTER**

**Precautionary statements:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P321 Specific treatment (see this label).  
P331 DO NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P362+ P364 Remove contaminated clothing, wash it before reuse.

**Additional information:**

EUH204 Contains isocyanates. May cause an allergic reaction.  
The product is intended for occupational use only.

**2.3. Other hazards**

**Results of PBT and vPvB assessment:**

PBT: Not applicable.  
vPvB: Not applicable.

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

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

Description: A mixture of the following components with safe additions\*.

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

Hydrocarbons C9, aromatics  
CAS: 64742-95-6  
EC number: 918-668- 5  
Reg. no.: 01-2119455851-35  
Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336  
25-50%

Aliphatic polyisocyanate\*  
CAS: 105431-79-6  
Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204  
10-25%

Butyl acetate  
CAS: 123-86-4  
EINECS: 204-658-1  
Reg. no.: 01-2119485493-29  
Flam. Liq. 3, H226; STOT SE 3, H336  
≤20%

2-methoxy-1-methylethyl acetate  
CAS: 108-65-6  
EINECS: 203-603-9  
Reg. no.: 01-2119475791-29  
Flam. Liq. 3, H226; STOT SE 3, H336  
10-25%

Xylene  
CAS: 1330-20-7  
EINECS: 215-535-7  
Reg. no.: 01-2119488216-32  
Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335  
≥10-<15%

Ethylbenzene  
CAS: 100-41-4  
EINECS: 202-849-4  
Reg. no.: 01-2119489370-35  
Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412  
2.5-<10% \*

**Additional information:**

Full text of hazard statements provided in section 16.

## **SECTION 4: FIRST AID MEASURES**

### **4.1. Description of first aid measures**

General information: Immediately remove contaminated clothing. If breathing is irregular or has ceased, apply artificial respiration.

Inhalation: Supply plenty of fresh air and call a doctor for safety reasons. In case of loss of consciousness place and transport in stable recovery position.

After skin contact: In general the product does not irritate skin. Immediately wash with water.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Immediately consult a doctor.

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

Exposure effects: The most important symptoms both acute and delayed are described on the label (see section 2 and/or section 11).

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

No further relevant data available.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, dry powder or water jet. Fight larger fires with water spray or alcohol-resistant foam.

**Extinguishing media unsuitable due to safety considerations:** Full jet of water.

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

Formation of poisonous gases when heated or in case of fire.

Fire may produce:

Nitrogen oxides (NOx). Carbon monoxide (CO). Hydrogen cyanide (HCN).

### **5.3. Advice for fire fighters**

Protective equipment: Wear respiratory protection.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Wear respiratory protection. Wear protective clothing. Move unprotected persons to a safe place.

### **6.2. Environmental precautions**

Prevent from reaching sewage system or water courses. In the event of leakage into water course or sewage system inform competent authorities. Do not allow entering sewage system /surface water /ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.\*

### **6.4. Reference to other sections**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See section 13 for information on disposal considerations.

## **SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**

### **7.1. Precautions for safe handling**

Ensure good ventilation / exhaustion at the workplace. Avoid spraying.\*

#### **Information about fire and explosion protection:**

Keep ignition sources away - do not smoke. Take precautionary measures against static discharges. Keep respiratory protective equipment at hand.

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

#### **Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about common storage:** Do not store together with reducing agents, heavy metal compounds, acids and alkalis. Do not store in contact with foodstuffs.

**Further information about storage conditions:** Keep containers tightly sealed.\*

**Storage class:** 3

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

No further relevant data available.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

### 8.1. Control parameters

Additional information on the design of technical facilities. No further data; see section 7.

Components with limit values that require monitoring depending on the workplace:\*

123-86-4 Butyl acetate  
MPIC: 720 mg/m<sup>3</sup>\*  
MPC: 240 mg/m<sup>3</sup>\*

108-65-6 2-methoxy-1-methylethyl acetate  
MPIC: 520 mg/m<sup>3</sup>\*  
MPC: 260 mg/m<sup>3</sup>\*  
Skin

1330-20-7 xylene  
MPIC: 200 mg/m<sup>3</sup>\*  
MPC: 100 mg/m<sup>3</sup>  
Skin\*

100-41-4 Ethylbenzene  
MPIC: 552 mg/m<sup>3</sup>, 125 ppm  
MPC: 441 mg/m<sup>3</sup>, 100 ppm  
Skin

26471-62-5 m-toluene diisocyanate\*  
MPIC: 400 mg/m<sup>3</sup>\*  
MPC: 200 mg/m<sup>3</sup>\*  
Skin\*

#### Additional information:

The currently valid lists were used as basis.

### 8.2. Exposure control

#### General measures of protection and hygiene:

Keep away from foodstuffs, beverages and feed. Immediately take off all soaked and contaminated clothing. Wash hands before each break and at the end of \* work. Keep protective clothing separately. Avoid contact with eyes. Avoid contact with eyes and skin.

#### Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device; in case of intensive or prolonged exposure, use a respiratory protective device independent of the ambient air.

#### Hands protection:



Protective gloves\*.

Due to the lack of testing, no recommendation can be made regarding glove material for protection against the product/preparation/chemical mixture. Selection of the glove material on consideration of the breakthrough times, rates of diffusion and degradation.

The glove material has to be impermeable and resistant to the product/substance/preparation.

#### Penetration time of the glove material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture consisting of several substances the resistance of the materials from which the gloves are made cannot be calculated in advance and should therefore be checked before use.

#### Penetration time of the glove material:

Information about the penetration time of the substance should be obtained from the glove manufacturer and has to be observed.

#### Eyes protection:



Tightly sealed protective glasses.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**General information:**

Appearance:	
Form:	Liquids
Colour:	according to product name
Odour:	Characteristic
Odour threshold:	Not determined.

**Change of state:**

Melting /freezing point:	Not determined.
Initial boiling point and boiling range:	124-128°C (123-86-4 butyl acetate*)
Flammability of materials *	Flammable product.
Explosion limits:	
Bottom:	0.7 Vol %, (64742-95-6 Hydrocarbons C9, aromatics*)
Top:	10.8 Vol % (108-65-6 2-methoxy-1-methylethyl acetate*)
Flash point:	24°C (DIN 53213) (DIN 53213, 1330-20-7 xylene*)
Auto ignition point:	315 °C (DIN 51794, 108-65-6 2-methoxy-1-methylethyl acetate)*
Breakdown point:	Undetermined.
pH - value at 20°C:	Not specified.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20°C:	10-20 s (DIN 53211/4)
Solubility in/miscibility with water	Not miscible or difficult to mix.
n-octanol/water partition coefficient:	Not determined.
Vapour pressure at 20 °C:	10.7 hPa

Flammability (solid, gas):	Not applicable.
Ignition temperature:	315°C (DIN 51794)
Explosive properties:	The product is not explosive, but may form explosive mixtures with the air.
Density at 20°C:	0.941 g/cm <sup>3</sup> (DIN 53217)
Relative density	not specified.
Vapour density	not specified

**9.2 Other information**

**Appearance:**

Form*	Liquid
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**Important information on health and environment protection and safety\***

Ignition temperature*	The product is not self-igniting
Explosive properties*	The product is not explosive, but may form explosive mixtures with the air.

**Solvent content:\***

VOC (EC)*	79.78%*
Solids content*	20.2 %*
Evaporation rate*	not specified.

**Information with regard to physical hazard classes\*:**

Explosives*	none
Flammable gases*	none
Aerosols*	none
Oxidising gases*	none
Gases under pressure*	none
Flammable liquids*	Flammable liquid and vapour.
Flammable solids*	none
Self-reactive substances and mixtures*	none
Pyrophoric liquids*	none
Pyrophoric solids*	none
Self-heating substances and mixtures*	none
Substances and mixtures which emit flammable gases*	none
Oxidizing liquids*	none
Oxidising solids*	none
Organic peroxides*	none
Substances corrosive to metals*	none
Desensitised explosives*	none

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No further relevant data available.

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition when used as intended.

### 10.3 Possibility of hazardous reactions

Hazardous reactions unknown.

### 10.4. Conditions to be avoided

See section 7.1.\*

### 10.5 Incompatible materials

No further relevant data available.

### 10.6. Hazardous decomposition products

Possible traces.

Nitrogen oxides.\*

Hydrogen chloride (HCl).

Hydrogen cyanide (hydrocyanic acid).

Carbon monoxide.

Nitrogen oxides (NOx).

## SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity:

Based on available data, the classification criteria are not met.

**Relevant classified LD/LC50 values:\***

#### 64742-95-6 Hydrocarbons,C9,aromatics

Oral LD50 > 2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

**The main harmful effects:**

**Skin corrosion/irritation:** Causes skin irritation.

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

**Allergic effect on airways or skin:** May cause an allergic skin reaction. \*

**e) Additional toxicological information:**

**Carcinogenicity, Mutagenicity and Reproductive Toxicity (CMR):**

**Mutagenic effect on germ cells:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Harmful effect on reproduction:** Based on available data, the classification criteria are not met.

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

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

**Aspiration hazard:** May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards\*

No further data available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Aquatic toxicity No further relevant data available.

### 12.2. Persistence and degradability

No further relevant data available.

### 12.3 Bioaccumulative potential

No further relevant data available.

### 12.4 Mobility in soil

No further relevant data available.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6. Endocrine disrupting properties\*

The product does not contain substances with endocrine disrupting properties.

### 12.7. Other hazardous effects\*

**Ecotoxic effects:**

**Warning:** Poisonous to fish.

**Further ecological information:**

**General information:**

Water hazard class 2 (Self-assessment): hazardous to water.  
Do not allow the product to reach ground water, surface water or sewage system.  
Dangerous to drinking water if even small quantities leak into the ground.  
Poisonous to fish and plankton in water reservoirs.  
Poisonous to aquatic life.\*

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Recommendation: Must not be disposed together with household garbage. Prevent from reaching sewage system.

European waste catalogue:  
08 01 11 Waste paints and varnishes containing organic solvents or other dangerous substances.

Contaminated packaging: Recommendation: Dispose of according to applicable regulations.

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number:**

ADR, IMDG, IATA: UN1263

**14.2. UN proper shipping name**

ADR: UN1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS  
IMDG: PAINT RELATED MATERIAL (Solvent naphtha), MARINE POLLUTANT  
IATA: PAINT RELATED MATERIAL

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

**ADR**



Class: 3 (F1) Flammable liquids.  
Label: 3

**IMDG**



Class: 3 Flammable liquids  
Label: 3

**IATA**



Class: 3 Flammable liquids  
Label: 3

**14.4. Packaging group**

ADR, IMDG, IATA: III

**14.5. Environmental hazards**

The product contains substances hazardous to the environment: Hydrocarbons C9, aromatics\*.

Marine pollutants: Yes.  
Symbol (fish and tree)  
Special labelling (ADR): Symbol (fish and tree)

**14.6. Special precautions for users**

**Attention: Flammable liquids.**

hazard code (Kemler): 30  
EMS Number: F-E,S-E  
Stowage Category: A

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

Not applicable.

Transport/Additional information:

ADR:  
Limited quantities (LQ) 5 L

Transport category: 3  
Tunnel restriction code D/E

IMDG:  
Limited quantities (LQ) 5 L

UN 'Model Regulation': 1263 PAINT RELATED MATERIAL, 3, III, ENVIRONMENTALLY HAZARDOUS

## **SECTION 15: REGULATORY INFORMATION**

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

Road and railway transport ADR/RID according to Government Statement of May 28, 2013 on the entry into force of amendments to Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957.(Official Journal 2013, item 815).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH), Official Journal of the EU L396 of December 2006 as amended.

#### **Classification according to the regulation (EC) no 1272/2008:**

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 as amended.

Commission Regulation (EU) 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration Evaluation Authorization and Restriction of Chemicals (REACH).

Directive 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain directives, as amended.

Directive 94/62/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 December 1994 on wastes and waste packagings and repealing certain directives, as amended.

GHS label elements.

#### **Directive 2012/18/EU**

**Named dangerous substances - ANNEX I:** None of the components is listed.

#### **Seveso category:**

E2 Hazardous to the aquatic environment  
P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements:** 200t

**Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500t

**Regulation (EC) no 1907/2006 ANNEX XVII** Restriction conditions: 3 \*

#### **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment -**

**Annex II** None of the components is listed.

#### **National regulations:**

**Additional classification according to the Regulation on hazardous materials annex II:**

Class	share %*
NK	50-100

### **15.2. Chemical safety assessment:**

Chemical safety assessment has not been performed.

## **SECTION 16: OTHER INFORMATION**

This information is based on our present knowledge; however it does not definitively define the production characteristics and cannot be used as a justification for valid contracts.

#### **Relative phrases:**

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.  
H319 Causes eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
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.  
EUH066 Repeated exposure may cause skin dryness or cracking. \*  
EUH204 Contains isocyanates. May cause an allergic reaction. \*



**Classification according to the Regulation (EC) no 1272/2008:**

According to Directive 1272/2008 (EU), the classification of a mixture is based on a calculation method using material data.

**Explanation of abbreviations and acronyms\*:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitization – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity ( single exposure) – Category 3

STOT RE 2: Specific target organ toxicity ( repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term hazard to the aquatic environment – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term hazard to the aquatic environment – Category 3

Changes in the Sheet compared to the previous version:

Marked with the symbol: \*

Sheet number: 06-1D5E-0123-V3