

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

### 1.1. Product identification ACCELERATING AGENT

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

Product significantly cutting down the drying and hardening time of two-component polyurethane and acrylic products. For professional use in car refinishing.

### 1.3. Data of the safety data sheet supplier

#### Przedsiębiorstwo RANAL Sp. z o.o.

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Phone: +48 34 329 45 03

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#### Person responsible for the safety data sheet:

ranal@ranal.pl

### 1.4. Emergency telephone

+48 34 329 45 03 (from 8.00am to 03.00pm)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The mixture was classified as dangerous according to current regulations – see section 15 of the sheet.

#### Classification 1272/2008/EC:

Acute toxicity (after contact with skin) and acute toxicity (after inhalation), hazard category 4 (Acute Tox. 4).

Harmful in contact with skin or if inhaled. Irritating to skin, hazard category 2 (Skin Irrit. 2). Causes skin irritation. Allergic effect on skin, hazard category 1. May cause an allergic skin reaction.

Irritating to eyes, hazard category 2 (Eye Irrit. 2). Causes eye irritation.

Mutagenic effect on germ cells, hazard category 2 (Muta. 2). Suspected of causing genetic defects. Harmful effect on reproduction, hazard category 1B (Repr. 1B). May be harmful to reproduction. May be harmful to the unborn child.

Toxic effect on target organs – single exposure, hazard category 2 (STOT SE 2). May cause damage to organs. Toxic effect on target organs – repeated exposure, hazard category 2 (STOT RE 2) May cause damage to organs through prolonged or repeated exposure.

Hazardous for aquatic life – chronic hazard, category 2 (Aquatic Chronic 2). Toxic to aquatic life with long-lasting effects

Flammable liquids, hazard category 3. (Flam. Liq. 3). Flammable liquid and vapours.

### 2.2. Label elements

Contains:

Dibutyl tin dilaurate, xylene.

Pictograms:



Warning word: **Danger.**

Risk index:

H226	Flammable liquid and vapour.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility or the unborn child.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long-lasting effects.

Safety index:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P260 Do not breathe vapours/spray.  
P273 Avoid release to the environment.  
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.  
P308+P313 If exposed: Call a POISON CENTER or doctor/physician.

**2.3. Other Hazards**

No data available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable.

**3.2. Mixtures****Product identification**

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

Xylene  
78-88%  
EC: 215-535-7  
CAS: 1330-20-7  
Index No: 601-022-00-9  
Registration No: 01-2119457861-32-XXXX

Flam. Liq. 3, H226;  
Acute Tox. 4, H332;  
Acute Tox. 4, H312;  
Skin Irrit. 2, H315.

Butyl acetate  
<3%  
EC: 204-658-1  
CAS: 123-86-4  
Index No: 607-025-00-1  
Registration No: 01-2119485493-29-XXXX

Flam. Liq. 3, H226;  
STOT SE 3, H336;  
EUH066.

Dibutyl tin dilaurate  
<3%  
EC: 201-039-8  
CAS: 77-58-7  
Index No: ---  
Registration No: 01-2119496068-27-XXXX

Skin Corr. 1C, H314;  
Eye dam. 1, H318;  
Skin Sens. 1, H317;  
Muta. 2, H341;  
Repr. 1B, H360FD;  
STOT SE 1, H370;  
STOT Rep. 1, H372;  
Aquatic Acute 1, H400;  
Aquatic Chronic 1, H410.

Full text of the phrases identifying the types of hazard provided in section 16.

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

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

General information:

See section 11 of the Material Safety Data Sheet.

Inhalation:

Take the victim outside to the fresh air, ensure quiet surrounding, in case of no breath perform artificial respiration. **Call a doctor.**

Skin:

Take off contaminated clothing. Rinse contaminated skin with plenty of lukewarm water for about 15 min. If irritation persists consult a doctor.

Eyes:

Rinse immediately with plenty of water for about 15 min, avoid strong water jet- risk of cornea damage, consult a doctor.

Alimentary tract:

Do not cause vomiting (choking risk). Rinse mouth with water. If conscious, administer 1-2 glasses of warm water. Call a doctor.

Person giving first aid should wear medical gloves.

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

May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.

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

Special measures allowing for specialist and immediate aid should be available in the place of work.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Powder, foam resistant to alcohols, carbon dioxide, water mist.

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

Carbon monoxide may be generated in case of fire.

### **5.3. Advice for firefighters**

Fire-fighting teams should wear self-contained breathing apparatus and light protective clothing. Cool adjacent tanks by spraying water from a safe distance.

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

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

For persons not being members of aid giving staff:

Remove ignition sources. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal safety measures – see section 8 of Material Safety Data Sheet.

For persons being the members of aid giving staff:

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 leakage to the sewage system, surface waters, underground waters and soil.

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

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

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

Personal protection measures– see section 8 of the Material Safety Data Sheet.

Disposal considerations – see section 13 of the Material Safety Data Sheet.

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

### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition. Prevent leakage to the sewage system, surface waters, underground waters and soil. Use only in well ventilated rooms. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precaution measures against electrostatic discharge. Use personal protection measures – see section 8 of the Material Safety Data Sheet.

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

Store in well sealed original containers. Do not store near large amounts of organic peroxides or other strong oxidants. Take precaution measures against electrostatic discharge. Store in cool, well ventilated rooms. Protect from low temperatures, the sunrays and heat sources.

### 7.3. Special end use(s)

Product significantly cutting down the drying and hardening time of two-component polyurethane and acrylic products. For professional use in car refinish taking into consideration the information included in subsections 7.1 and 7.2 of the sheet.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

### 8.1. Control parameters

Values of the highest permissible concentrations according to the Regulation of the Minister of Labor and Social Policy of June 6, 2014 on the highest permissible concentrations and concentrations of agents harmful to health in the work environment, Official Journal of 2014 item 817.

<b>CAS NUMBER</b>	1330-20-7
<b>SUBSTANCE</b>	Xylene
<b>MPC (mg/m<sup>3</sup>)</b>	100
<b>MPIC (mg/m<sup>3</sup>)</b>	---
<b>MPCC (mg/m<sup>3</sup>)</b>	---

<b>CAS NUMBER</b>	123-86-4
<b>SUBSTANCE</b>	Butyl acetate
<b>MPC (mg/m<sup>3</sup>)</b>	200
<b>MPIC (mg/m<sup>3</sup>)</b>	950
<b>MPCC (mg/m<sup>3</sup>)</b>	---

National permissible biological values:

<b>CAS NUMBER</b>	1330-20-7
<b>SUBSTANCE ABSORBED</b>	Xylene
<b>SUBSTANCE MARKED</b>	methyl hippuric acid
<b>BIOLOGICAL MATERIAL</b>	urine*
<b>PCB VALUES</b>	0.75 g/g creatinine

*Notice:* \* single sample, taken at the end of a daily exposure any day

PN-EN 482: 2012 Occupational exposure – General requirements for the characteristics of procedures of measurements of chemical factors.

PN-EN-689: 2002. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values.

PN Z-04008-7:2002 Protection of air cleanliness. Sampling. Principles of air sampling in the work environment and interpretation of results.

### 8.2. Exposure control

Respiratory tract protection:

Gas mask with A type absorber (EN 141).

Hands protection:

Protective gloves PN-EN 374-3 (viton, 0.7 mm thick, penetration time >480 min, nitril rubber, 0.4 mm thick, penetration time >30 min).

Eye protection:

Tight protective glasses.

Skin protection:

Proper protective clothing (coated, impregnated fabrics).

Workplace:

Fixed fume extraction and general ventilation.

Environmental exposure control:

Prevent leakage to the sewage system, surface waters, underground waters and soil. Toxic to aquatic organisms. May cause long-term adverse effects in aquatic environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	strong, powerful
<b>Odour threshold</b>	0.9-9 mg/m <sup>3</sup> (xylene)
<b>pH</b>	not applicable
<b>Melting/freezing point</b>	-25°C
<b>Boiling point</b>	about°C
<b>Flash point</b>	24°C
<b>Autoignition point</b>	about 400°C
<b>Breakdown point</b>	not specified
<b>Evaporation rate</b>	not specified
<b>Flammability (solid, gas)</b>	not applicable
<b>Explosion limit</b>	% bottom: 1.1 vol%, top: 8.0 vol% (xylene)
<b>Vapour pressure</b>	9 hPa (20°C) (xylene)
<b>Vapour density (with regard to air)</b>	3.66 (xylene)
<b>Density</b>	about 0.88 g/cm <sup>3</sup> (20°C)
<b>Solubility (in water)</b>	poor
<b>n-octanol/water partition coefficient</b>	3.12-3.2 (xylene)
<b>Viscosity ISO 2431 (4 mm)</b>	10s
<b>Explosive properties</b>	not applicable
<b>Oxidizing properties</b>	not applicable

### 9.2. Other information

No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Product not reactive under normal conditions.

### 10.2. Chemical stability

Product stabile under normal conditions.

### 10.3. Possibility of hazardous reactions

Carbon monoxide and other toxic gases are generated in case of fire.

### 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 the influence of sunrays 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

Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

No experimental data available on the preparation. Evaluation based on the data on dangerous ingredients included in the preparation.

#### a) Acute toxicity

Xylene	
LD50 (rat, ingestion)	4300 mg/kg
LC50 (rat, inhalation)	5000 ppm/4h
LD50 (rabbit, skin)	1700 mg/kg

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Butyl acetate	
LD50 (rat, ingestion)	10768 mg/kg
LC50 (rat, inhalation)	390 ppm/4h
LD50 (rabbit, skin)	17600 mg/kg

**b) Caustic /irritating effect on skin**

Causes skin irritation.

**c) Serious eye damage / eye irritation**

Działa drażniąco na oczy.

**d) Allergic effects on respiratory system or skin**

May cause an allergic skin reaction.

**e) Mutagenic effect on germ cells**

Suspected of causing genetic defects.

**f) Carcinogenicity**

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

**g) Harmful effect on reproduction**

May be harmful to reproduction. May be harmful to the unborn child.

**h) Toxic effect on target organs – single exposure**

May cause damage to organs.

**i) Toxic effect on target organs – repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**j) Aspiration hazard**

No available data confirming the hazard class

**Exposure methods:**

Respiratory tract: Harmful in case of inhalation.

Skin: Harmful in contact with skin. Causes skin irritation.

Eyes: Irritating effect.

Alimentary tract: If swallowed the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhea.

Poisoning symptoms:

Headaches and dizziness, fatigue, decreased muscle power, drowsiness and in exceptional instances loss of consciousness.

**SECTION 12: ECOLOGICAL INFORMATION**

No experimental data available on the preparation. Evaluation based on the data on dangerous ingredients included in the preparation.

**12.1. Toxicity**

Xylene	
<i>Daphnia magna</i> / EC50 (48 h)	7.4 mg/l
Acute toxicity for mammals	3; for fish: 4.1
Number in catalogue of water hazardous substances	206
Water hazard class	2

Butyl acetate	
Number in catalogue of water hazardous substances	42
Water hazard class	1

Dibutyl tin dilaurate	
<i>Daphnia magna</i> / EC50	0.66 mg/l

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

Xylene

Biodegradation coefficient: BCF <100

**12.4. Mobility in soil**

Very poorly soluble in water.

**12.5. Results of PBT and vPvB assesment**

No data available.

**12.6. Other hazardous effects**

No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Product must be disposed of in compliance with the proper local and statutory regulations with regard to waste – see point 15 of the sheet.

Dispose of with entities which are authorized to collection, recover o disposal.

Product remains:

Waste code: 08 01 11\* Waste paint and varnish containing organic solvents or other dangerous substances. Do not dispose the product into the sewage system. Do not store with communal waste. Remove carefully the remains of the product, add es. to some polyurethane or acryl clear coat (waste) and harden using a hardener from the set.

CAUTION: The remains should be hardened in small portions and only in well ventilated rooms and away from flammable products. Hardened product is not harmful waste.

Contaminated container:

A container with the remains of the product is harmful waste. Waste code: 15 01 10\*.

Containers with the remains of dangerous substances or contaminated by them (as with pesticides of I and II class of toxicity – very toxic and toxic). Do not store with communal waste. A contaminated container should be returned to the producer and if it is impossible, it should be disposed with entities which are authorized to collection, recover o disposal.

**SECTION 14: TRANSPORT INFORMATION**

ADR/RID  
IMO/IMGD  
IATA-DGR

**14.1. UN number**

1263  
1263  
1263

**14.2. UN proper shipping name**

PAINT-RELATED MATERIAL

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

3  
3  
3

**14.4. Packaging group**

III  
III  
III

**14.5. Environmental hazards**

YES  
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**14.6. Special precautions for user**

Do not transport together with products of class 1 (except products of class 1.4S), and some products of class 4.1 and 5.2. During the transport avoid direct contact with products of class 5.1 and 5.2. Do not use an open flame and do not smoke.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 Convention and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

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

- 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,

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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.

- Official Journal of the European Union L 136 of May 29 2007., Official Journal of the EU L 304 of November 22 2007., Official Journal of the EU L 268 of October 9 2008, Official Journal of the EU L 46 of February 17 2009, Official Journal of the EU L 164 of June 26 2009, Official Journal of the EU L 133/1 of May 31 2010 with later amendments.
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Official Journal of EU L 132 of May 29 2015.
- 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 (Official Journal of EU L 353 of December 31 2008); Official Journal of EU L 235 of September 5 2009, Official Journal of EU L 83 of March 30 2011, Official Journal of EU L 179 of July 11 2012, Official Journal of EU L 149 of June 1 2013, Official Journal of EU L 261 of October 3 2013, Official Journal of EU L 167 of June 2014, Official Journal of EU L 197 of July 25 2015.

**15.2. Chemical safety assessment**

Not performed.

**SECTION 16: OTHER INFORMATION****16.1 Full text of the phrases identifying the types of hazards and R phrases mentioned in sections 2-15:**

Flam. Liq. 3 H226	Flammable liquids, cat. 3. Flammable liquid and vapours.
Acute Tox. 4 H332	Acute toxicity, cat. 4. Harmful if inhaled.
H312	Harmful in contact with skin.
Skin Irrit. 2 H315	Caustic/irritating effect on skin, cat. 2. Causes skin irritation, cat. 2.
STOT SE 3 H336	Toxic effect on target organs – single exposure, cat. 3. May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2 H319	Serious eye damage/eye irritation, cat. 2. Causes eye irritation.
Eye Dam1. H318	Serious eye damage/eye irritation, cat. 1. Causes serious eye damage.
Skin Sens. 1 H317	Allergic effect on skin. May cause an allergic skin reaction.
Skin Corr. 1C H314	Caustic/irritating effect on skin, cat. 1C. Causes severe skin burns and eye damage.
Muta. 2 H341	Mutagenic effect on germ cells, cat. 2. Suspected of causing genetic defects.
Repr. 1B H360FD	Harmful effect on reproduction, cat. 1B. May damage fertility. May damage the unborn child.
STOT SE 1 H370	Toxic effect on target organs – single exposure, cat. 1. Causes damage to organs.
STOT SE 2 H371	Toxic effect on target organs – single exposure, cat. 2. May cause damage to organs.
STOT RE 1 H372	Toxic effect on target organs – repeated exposure, cat. 1. Causes damage to organs through prolonged or repeated exposure.
STOT RE 2 H373	Toxic effect on target organs – repeated exposure, cat. 2. May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1 H400	Hazardous for aquatic life – acute hazard, cat. 1. Very toxic to aquatic life.
Aquatic Chronic 1 H410	Hazardous for aquatic life – chronic hazard, cat. 1. Very toxic to aquatic life with long-lasting effects.
Aquatic Chronic 2 H411	Hazardous for aquatic life – chronic hazard, cat. 2. Toxic to aquatic life with long-lasting effects.

**Explanations of the abbreviations and acronyms used in the Material Safety Data Sheet:**

**CAS No** – numerical symbol ascribed to a chemical substance by the American organization Chemical Abstracts Service (CAS).

**EC No** – a number ascribed to a chemical substance in the European List of Notified Chemical Substances (ELINCS), or a number in the European Inventory of Existing Chemical Substances mentioned in "No-longer polymers" publication (EINECS)

**MPC** – maximum permissible concentration of health hazardous substances in the work place.

**MPIC** – maximum permissible instantaneous concentration.

**MPCC** – maximum permissible ceiling concentration.

**PCB** – permissible concentration in biological material

**UN number** – four-digit identification number of a substance, preparation or product pursuant to UN model regulations



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**ADR** – European Agreement Concerning International Carriage of Dangerous Goods by Road.

**IMO** – International Marine Organization.

**RID** – Regulation for international carriage of dangerous goods by rail.

**IMDG-Code** – International code of dangerous goods.

**ICAO /IATA** – Technical Instructions for Safe Carriage of Dangerous Goods by Air.

Classification based on calculation method according to classification rules included in Regulation 1272/2008/EC

**Other data sources:**

**ECHA** European Chemicals Agency

**TOXNET** Toxicology Data Network

**IUCLID** International Uniform Chemical Information Database

**Changes in the sheet:** change in section 1.3.

**Sheet number:** 0P1L0318V2.