

## ACRYLIC ENAMEL 2:1

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

#### 1.1. Product identification

**ACRYLIC ENAMEL 2:1**

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

Two - component acrylic enamel (component A) – various colours (see appendix 1), 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 dangerous according to current regulations – see section 15.

##### Classification 1272/2008/EC:

Skin irritation, hazard category 2 (Skin Irrit. 2). Causes skin irritation.

Toxic effect on target organs – single exposure, hazard category 3, narcotic effect (STOT SE 3). May cause drowsiness or dizziness.

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

#### 2.2. Label elements

Contains:  
Xylene.

Pictograms:



Signal word: **Warning.**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

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

P261 Avoid breathing vapour/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P312 Call a doctor if you feel unwell.

#### 2.3. Other hazards

No data available.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

##### Product identification

ACRYLIC ENAMEL 2:1

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

**Butyl acetate**

16-20%  
EC: 204-658-1  
CAS: 123-86-4  
Index no: 607-025-00-1  
Registration no: 01-2119485493-29-XXXX

Classification 1272/2008/EC:  
Flam. Liq. 3, H226;  
STOT SE 3, H336;  
EUH066.

**Xylene**

9-12%  
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**

7-10%  
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 glycol acetate**

1-5%  
EC: 203-933-3  
CAS: 112-07-2  
Index no: 607-038-00-2  
Registration no: 01-2119475112-47-XXXX

Classification 1272/2008/EC:  
Acute Tox. 4, H332;  
Acute Tox. 4, H312.

Full text of the phrases identifying the types of hazard 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 Sheet.

**Airways:**  
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, give 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**

Vapours may cause drowsiness or dizziness. 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 and other toxic gases 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 water, ground water 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 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 sources of ignition. Prevent leakage to the sewage system, surface water, ground water 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 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)**

Two - component acrylic enamel (component A) to be applied with a spray gun. For professional use in car refinish taking into consideration the information included in subsections 7.1 and 7.2.

## ACRYLIC ENAMEL 2:1

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

#### 8.1. Control parameters

CAS NUMBER:	SUBSTANCE	MPC (mg/m <sup>3</sup> )	MPIC (mg/m <sup>3</sup> )	MPCC (mg/m <sup>3</sup> )
123-86-4	Butyl acetate	200	950	---
1330-20-7	Xylene	100	---	---
108-65-6	1-methoxy-2-propyl acetate	260	520	---
112-07-2	Butyl glycol acetate	100	300	---

National acceptable biological values:

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

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

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 protection:

Gas mask with A type absorber (EN 141).

Hand protection:

Protective gloves PN-EN 374-3 (viton, 0.7 mm thick, penetration time >480 min., nitrile 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.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical state</b>	liquid
<b>Colour</b>	according to specification
<b>Odour</b>	strong, penetrating
<b>Odour threshold</b>	0.9-9 mg/m <sup>3</sup> (xylene)
<b>pH</b>	not applicable
<b>Melting/freezing point</b>	not applicable
<b>Boiling point</b>	120-130°C
<b>Flash point</b>	26°C
<b>Autoignition point</b>	approx. 435°C
<b>Breakdown point</b>	not specified
<b>Evaporation rate</b>	not specified
<b>Flammability (solid, gas)</b>	not specified
<b>Explosion limits</b>	% bottom: 1.1 vol%, top: 8.0 vol% (xylene)
<b>Vapour pressure</b>	9 hPa (20°C)
<b>Vapour density (with regard to air)</b>	4.0 (butyl acetate)
<b>Density</b>	approx. 1.0 ÷ 1.26 g/cm <sup>3</sup> (20°C) depending on the colour
<b>Solubility (in water)</b>	poor
<b>n-octanol/water partition coefficient</b>	1.85 (butyl acetate)
<b>Viscosity ISO 2431 (4 mm)</b>	110÷130 s
<b>Explosive properties</b>	not applicable
<b>Oxidizing properties</b>	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

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

### 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

LD <sub>50</sub> (rat, oral)	4300 mg/kg
LC <sub>50</sub> (rat, inhalation)	5000 ppm/4h
LD <sub>50</sub> (rabbit, skin)	1700 mg/kg

Butyl acetate

LD <sub>50</sub> (rat, oral)	10768 mg/kg
LC <sub>50</sub> (rat, inhalation)	390 ppm/4h
LD <sub>50</sub> (rabbit, skin)	17600 mg/kg

1-methoxy -2-propyl acetate

LD <sub>50</sub> (rat, oral)	8532mg/kg
LD <sub>50</sub> (rabbit, skin)	5000 mg/kg

Butyl glycol acetate

LD <sub>50</sub> (rat, oral)	2400mg/kg
LD <sub>50</sub> (rabbit, skin)	1500 mg/kg

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

Causes skin irritation.

#### c) Serious eye damage / eye irritation

No available data confirming the hazard class.

#### d) Allergic effects on respiratory tract or skin

The mixture is not classified as having allergic effects. No available data confirming the hazard class.

#### e) Mutagenic effect on germ cells

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

#### f) Carcinogenicity

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

#### g) Harmful effect on reproduction

The mixture is not classified as harmful to reproduction. No available data confirming the hazard class.

## ACRYLIC ENAMEL 2:1

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

May cause drowsiness or dizziness.

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

No available data confirming the hazard class.

### j) Aspiration hazard

No available data confirming the hazard class.

#### Ways of exposure:

Airways: Possible irritating effect.

Skin: Causes skin irritation.

Eyes: Possible 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.

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

## 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

#### 1-methoxy-2-propyl acetate

*Daphnia magna* / EC50 (48 hours)

>500 mg/l

*Oncorhynchus mykiss* / LC50 (96 hours)

100-180 mg/l

Number in catalogue of water hazardous substances:

5033

Water hazard class:

1

#### Xylene

*Daphnia magna* / EC50 (48 hours)

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

#### Butyl glycol acetate

Toxicity for fish / EC50 (17 h)

960 mg/l

Number in catalogue of water hazardous substances:

592

Water hazard class:

1

### 12.2. Persistence and degradability

#### Butyl acetate

Biodegradability:

98% (closed cylinder test)

### 12.3. Bioaccumulative potential

#### Butyl acetate

Bioconcentration factor:

BCF=3.1

### 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 section 15 of the Sheet. Dispose with entities which are authorized to collection, recover o disposal of wastes.

**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 the remains of the mixture carefully and harden with the use of the proper B component (waste hardener) included in the set. Cured product is not harmful waste.

**CAUTION:** cure the remains in small portions and away from flammable products. Large amounts of heat are released during chemical reaction!

**Contaminated container:**

A contaminated container containing uncured remains of the product is harmful waste.

Waste code: 15 01 10\*. Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II toxicity class – toxic and very toxic). Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover o disposal.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

1263

**14.2. UN proper shipping name**

PAINT

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

3

**14.4. Packaging group**

III

**14.5. Environmental hazards**

No.

**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, 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 EU L 136 of May 29 2007. Official Journal of EU L 304 of November 22 2007, Official Journal of EU L268 of October 09 2008, Official Journal of EU L 46 of February 17 2009, Official Journal of EU L164 of June 26 2009, Official Journal of EU L133/1 of May 31 2010 with following 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****Full text of the phrases identifying the types of hazards mentioned in sections 2-15:**

Flam. Liq. 3	Flammable Liquids, cat. 3.
H226	Flammable liquid and vapour.
STOT SE 3	Toxic effect on target organs – single exposure, cat. 3.
H336	May cause drowsiness or dizziness.

Acute Tox. 4	Acute Toxicity, cat. 4.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
Skin Irrit. 2	Caustic / irritating effect on skin, cat. 2.
H315	Causes skin irritation, cat. 2.
EUH066	Repeated exposure may cause skin dryness or cracking.

**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 European Inventory of Existing Chemical Substances (EINECS), in European List of Notified Chemical Substances (ELINCS) or a number in the list of chemicals listed in the publication 'No-longer polymers'.

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

**MPIC** – maximum permissible instantaneous concentration.

**MPCC** – maximum permissible ceiling concentration.

**PBC** – permissible concentration in biological material.

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

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

**IMO** – International Marine Organization.

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

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

**ICAO /IATA** – Technical Instructions for Safe Air Transport of Dangerous Materials.

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

**Changes:** General update.

**Sheet number:** 0P1L0318V3



**ANNEX 1: LIST OF COLOURS**

ACRYLIC ENAMEL 2:1 LA:

001 A, 003 A, 208 A, 509 A, DACIA 21D, DACIA 61E, IVECO CODE IC 257, OPEL 667, PPG/SADOLIN1402, RAMA SCANIA, RENAULT 619 SEMI-MATT, RENAULT A70, SCANIA 1435812, SCANIA 1366652 (RAL 5009), SCANIA 1396147 ( SA654 ), SCANIA CHILLI RED, 004 A, 101, 1027, 106, 107,107 A, CASABLANCA WHITE, 1115, 140 YASHIMA, 170, 180, 180 A, 181 A, 182 A, 201, 202, 202 A VARIANT II, 210, 215, 228, 233, 233 A, 235, 235 A, 236, 236 AZ, 295, 303, 307, 307 A, 309, 325, 325 / II MORSKAJA PUCHINA, 360, 377, 400, 403, 404 A, 410, 417, 420, 425 A, 427, 427 A, 428, 440 A, 440 ATLANTICA, 447, 447 A, 449, 449 A, 456, 458, 464 A, 480, 481, 506, 601, 601 A, 605, 671, 671 A, 71 L MEXICO RED, 77 K RED CROWN, 793, AFRICA DARK RED, AFRICA PINK, AFRICA RED, BMW 300 (AZ), CITRUS GREEN 1546016, PURE WHITE, DB 7350, GAZ, IVECO 313, IVECO IC030, IVECO IC194, JOHN DEERE YELLOW, KH VOLVO 1042, MAZDA SQ - E3-SA547, MB 650 (AZ), MERC 40, MERC 5518, MERCEDES 960 - A1-SD 469 ALABASTERW, ML 1110, SA 344/BIANCO BANCHISA HWB 249, SA 374, SK IVECO, TC 10 WHITE, TOYOTA 056 - A1-SC402, VOLVO 1103 (SA935), VOLVO 143, VOLVO 1622, YASMA A.

ACRYLIC ENAMEL 2+1 RAL:

7042, 1011, 1023, 1037, 3000, 3001, 3003, 3003 ECONOMY, 3005, 3011, 3026, 4001, 4003, 4004, 4006, 4008, 5000, 5002, 5003, 5004, 5005, 5008, 5010, 5011, 5012, 5013, 5015, 5017, 5019, 5020, 5021, 5022, 6003, 6003 MATT, 6005, 6006, 6010 (no metallic),6012, 6020, 6021, 6032, 6033, 6033 SEMI-MATT, 6034, 7004, 7005, 7015, 7016 (KR), 7021 (KR), 7024 (KR), 7024 SEMI-MATT, 7031, 7031 SEMI-MATT, 7037, 7040 (KR), 7043, 7046, 7047, 8008, 8028, 9001, 9004, 9005, 9004 MATT, 9005 SEMI-MATT, 9006 NR, 9010, 9011, 9011 (KR), 9016, 9017, 9017 SEMI-MATT, 9018, RAL 030 30 45 (RAL DESIGN), TOYOTA 040.