

**ACRYLIC CLEAR COAT 2:1 VHS**

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

**1.1. Product identification**  
**ACRYLIC CLEAR COAT 2:1 VHS**

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

Acrylic clearcoat (component A) to be applied with the use of a spray gun. For professional use in car refinishing.

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

**RANAL Sp. z o.o.**  
Tel: +48 34 329 45 03  
Ul. Łódzka 3  
Fax: +48 34 320-12-16  
PL 42-240 Rudniki

**Person responsible for the safety data sheet**  
ranal@ranal.pl

**1.4. Emergency telephone**  
+48 34 329-45-03 (from 8.00am to 3.00pm)

**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.

**Classification 1272/2008/EC:**

May cause an allergic skin reaction. (Skin Sens 1)  
May cause drowsiness or dizziness. (STOT SE 3)  
Harmful to aquatic organisms with long term effects. (Aquatic Chronic3)  
Highly flammable liquid and vapours. (Flam. Liq. 2)  
Repeated exposure may cause skin dryness or cracking.

**2.2. Label elements:**

Contains: isobutyl-methyl ketone, butyl acetate  
Pictograms:



Warning word: **Danger**

**Risk index:**

H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long-lasting effects.  
EUH066 Repeated exposure May cause skin dryness or cracking.

**Safety index:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours/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.

**ACRYLIC CLEAR COAT 2:1 VHS****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable.

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

ACRYLIC CLEAR COAT 2:1 VHS

**Butyl acetate**

20-25%

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

**methyl-n-amyl ketone**

10-15%

EC: 203-767-1

CAS: 110-43-0

Index no: 606-024-00-3

Registration no: 01-2119902391-49-XXXX

Classification 1272/2008/EC:

Flam. Liq. 3; H226

Acute Tox. 4; H332

Acute Tox. 4; H302

**Hydrocarbons, C9,aromatics**

&lt;10%

EC: 918-668-5

CAS: --

Index no: --

Registration no: 01-2119455851-35-XXXX

Classification 1272/2008/EC:

Flam. Liq. 3; H226

STOT SE 3; H335; H336

Asp. Tox. 1; H304

Aquatic Chronic 2 H411

EUH 066

**Isobutyl-methyl ketone**

&lt;7

EC: 203-550-1

CAS: 108-10-1

Index no: 606-004-00-4

Registration no: 01-2119473980-30-XXXX

Classification 1272/2008/EC:

Flam. Liq. 2; H225

Acute Tox. 4; H332

Eye Irrit. 2; H319

STOT SE 3; H335

EUH066

**Mixture:  $\alpha$ -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-propionyl- $\omega$ -hydroxypoly(oxyethylene) and  $\alpha$ -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-propionyl- $\omega$ -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4hydroxyphenyl]-propionyloxypoly(oxyethylene)**

&lt;1,6%

EC: 400-830-7

**ACRYLIC CLEAR COAT 2:1 VHS**

CAS:104810-48-2+104810-47-1+ 25322-68-3  
Index no: 607-176-00-30  
Registration no: 01-2119472279-28-XXXX

Classification 1272/2008/EC:  
Skin Sens. 1; H317  
Aquatic Chronic 2; H411

**Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate**  
<0,9  
EC: 255-437-1  
CAS: 41556-26-7  
Index no: --  
Registration no: --

Classification 1272/2008/EC:  
Skin Sens. 1; H317  
Aquatic Chronic 1; H410

Full text of the phrases identifying the types of hazard and R phrases 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, and in case of no breath ensure 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**

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.

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### 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 the sunrays, heat sources and low temperatures.

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

For professional use in car refinishing taking into consideration the information included in subsections 7.1 and 7.2.

### 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	---
110-43-0	methyl-n-amyl ketone	238	475	---
108-10-1	isobutyl-methyl ketone	83	200	---

National acceptable biological values: No data available

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

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Respiratory tract 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**

**Physical state**

liquid

**Colour**

clear

**Odour**

strong, powerful

**Odour threshold**

No data

**pH**

not applicable

**Melting/freezing point**

Not applicable

**Boiling point**

114°C

**Flash point**

14°C

**Autoignition point**

about 435°C

**Breakdown point**

No data available

**Evaporation rate**

No data available

**Flammability (solid, gas)**

Not applicable

**Explosion limits**

% bottom: 1.2 vol% top: 8.0 vol% (isobutyl-methyl ketone)

**Vapour pressure**

21,33 hPa (20°C) (isobutyl-methyl ketone)

**Vapour density (with regard to air)**

4.0 (butyl acetate)

**Density**

about 1.0 g/cm<sup>3</sup> (20°C)

**Solubility (in water)**

poor

**n-octanol/water partition coefficient**

1,31 (isobutyl-methyl ketone)

**Viscosity ISO 2431 (4mm)**

30s

**Explosive properties**

Not applicable

**Oxidizing properties**

Not applicable

**ACRYLIC CLEAR COAT 2:1 VHS****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 as a result of thermal decomposition.

**10.4. Incompatible materials**

Highly 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**

Methyl-n-amyl ketone

LD<sub>50</sub> (rat, ingestion) 1.600 mg/kg

LC<sub>50</sub> (rat, inhalation) 2000-4000 ppm/4h

Butyl acetate

LD<sub>50</sub> (rat, ingestion) 10768 mg/kg

LC<sub>50</sub> (rat, inhalation) 390 ppm/4h

LD<sub>50</sub> (rabbit, skin) 17600 mg/kg

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

No available data confirming the hazard class.

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

Causes eye irritation.

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

May cause an allergic skin reaction.

**e) Mutagenic effect on germ cells**

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

**f) Carcinogenicity**

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.

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

May cause drowsiness or dizziness.

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

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No available data confirming the hazard class. Repeated exposure may cause skin dryness or cracking.

**j) Aspiration hazard**

No available data confirming the hazard class.

Exposure methods:

Respiratory tract: Possible irritating effect.

Skin: May cause an allergic reaction.

Eyes: Possible irritating effect.

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**

Methyl-n-amyl ketone

Toxicity for fish (Pimephales promeles): LC50 131 mg/l/96h

Number in catalogue of water hazardous substances: 3726

Water hazard class: 1

Butyl acetate

Number in catalogue of water hazardous substances: 42

Water hazard class: 1

**12.2. Persistence and degradability**

Butyl acetate

Biodegradability: 98% (close bottle test)

**12.3. Bioaccumulative potential**

Butyl acetate

Biodegradation coefficient: 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**

Harmful to aquatic organisms with long-lasting effects.

**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.

Product remains:

Waste code: 08 01 11\* 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. Hardened product is not harmful waste.

**Warning:** harden 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 unhardened remains of the product is harmful waste. Waste code: 15 01 10\*. Do not store with communal waste. The contaminated container should be disposed with entities which are

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authorized to collection, recover o disposal.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1. UN number

1866

#### 14.2. UN proper shipping name

RESIN IN SOLUTION, flammable

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

3

#### 14.4. Packaging group

II

#### 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 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

#### Full text of the phrases identifying the types of hazards and R phrases mentioned in sections 2-15:

Flam.Liq. 2/3 Flammable Liquids 2/3

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour

Asp. Tox 1 Aspiration Toxicity hazard, cat. 1

H304 May be fatal if swallowed and enters airways.

STOT SE 3 Toxic effect on target organs – single exposure, cat. 3



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H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Acute Tox. 4 Acute Toxicity 4

H332 Harmful if inhaled

H302 Harmful if swallowed.

Skin Sens. 1 Skin sensitization

H317 May cause an allergic skin reaction.

Eye Irrit. 2 Eye Irritation 2

H319 Causes serious eye irritation.

Aquatic Chronic 2 Hazardous for aquatic environment – chronic hazard, cat. 1

H411 Toxic to aquatic life with long-lasting effects.

Aquatic Chronic 3 Hazardous for aquatic environment, cat.3

H412 Harmful to aquatic life with long-lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

**CAS number** – numerical symbol ascribed to a chemical substance by the American organization Chemical Abstracts Service (CAS).

**EC number** – 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

Changes: general update.