

ACRYLIC CLEARCOAT CLAR LACK 2+1 VHS

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

1.1. Product identification

ACRYLIC CLEARCOAT CLAR LACK 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

Przedsiębiorstwo RANAL Sp. z o.o.

Tel: +48 34 329 45 03
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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 34 322-28-77 (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:

Harmful by inhalation. (Acute Tox. 4)
May cause an allergic skin reaction. (Skin Sens 1)
Irritating to eyes. (Eye Irrit.2)
May cause drowsiness or dizziness. (STOT SE 3)
Harmful to aquatic organisms with long term effects.(Aquatic Chronic3)
Flammable liquid and vapours. (Flam. Liq. 3)

Classification 1999/45/EC:

Irritating product. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness or dizziness. Flammable product. Harmful to aquatic organisms; may cause long term adverse effects in aquatic environment.

2.2. Label elements:

Contains: methyl-n-amyl ketone, butyl alcohol

Pictograms:



Warning word: **Warning**

Risk index:

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long-lasting effects.

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.

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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 CLEARCOAT CLAR LACK 2+1 VHS

Butyl acetate

20-30%

EC: 204-658-1

CAS: 123-86-4

Index no: 607-025-00-1

Registration no: 01-2119485493-29-XXXX

Classification 67/548/EEC:

R10, R66-67

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 67/548/EEC:

R10

Xn; R20/22

Classification 1272/2008/EC:

Flam. Liq. 3; H226

Acute Tox. 4; H332

Acute Tox. 4; H302

Hydrocarbons, C9,aromatics

5-10%

EC: 918-668-5

CAS: --

Index no: --

Registration no: 01-2119455851-35-XXXX

Classification 67/548/EEC:

With Note H and Note P benzene weight content (EINECS no 200-753-7) less than <0,1%:

R10

Xn; R65

Xi; R37

N; R51/53

R66-67

Classification 1272/2008/EC:

Flam. Liq. 3; H226

STOT SE 3; H335; H336

Asp. Tox. 1; H304

Aquatic Chronic 2 H411

EUH 066

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Butyl alcohol
1-2%
EC: 200-751-6
CAS: 71-36-3
Index no: 603-004-00-6
Registration no: 01-2119484630-38-XXXX

Classification 67/548/EEC:
R10
Xn; R22
Xi; R37/38-41
R67

Classification 1272/2008/EC:
Flam. Liq. 3; H226
Acute Tox. 4; H302
STOT SE 3; H335
Skin Irrit. 2; H315
Eye Dam. 1; H318
STOT SE 3; H336

Acetone
1-2%
EC: 200-662-2
CAS: 67-64-1
Index no: 606-001-00-8
Registration no: 01-2119471330-49-XXXX

Classification 67/548/EEC:
Xi; R36
F: R11
R66-67

Classification 1272/2008/EC:
Flam. Liq. 2; H225;
Eye Irrit. 2; H319;
STOT SE 3, H336
EUH066

Mixture: α -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-propionyl- ω -hydroxypoly(oxyethylene) and α -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-propionyl- ω -3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-propionyloxypoly(oxyethylene)
1-2%
EC: 400-830-7
CAS: 104810-48-2+104810-47-1+ 25322-68-3
Index no: 607-176-00-30
Registration no: 01-2119472279-28-XXXX

Classification 67/548/EEC:
Xi, R43
N, R51/53

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

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

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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 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 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.

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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 ³)	MPIC (mg/m ³)	MPCC (mg/m ³)
123-86-4 Butyl acetate	200	950	---
71-36-3 Butyl alcohol	50	150	---
110-43-0 methyl-n-amyl ketone	238	475	---
67-64-1 Acetone	1800	600	---

8.2. Exposure control

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

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0.9-9 mg/m³ (xylene)

pH

not applicable

Melting/freezing point

Not applicable

Boiling point

120-130°C

Flash point

26°C

Autoignition point

about 435°C

Breakdown point

No data available

Evaporation rate

No data available

Flammability (solid, gas)

Not applicable

Explosion limits

% bottom: 1.1 vol% top: 8.0 vol% (xylene)

Vapour pressure

9 hPa (20°C)

Vapour density (with regard to air)

4.0 (butyl acetate)

Density

about 1.0 g/cm³ (20°C)

Solubility (in water)

poor

n-octanol/water partition coefficient

1,85 (butyl acetate)

Viscosity ISO 2431 (4mm)

200s

Explosive properties

Not applicable

Oxidizing properties

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 may be generated as a result of thermal decomposition.

10.4. Incompatible materials

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

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

a) Acute toxicity

Xylene

LD ₅₀ (rat, ingestion)	4300 mg/kg
LC ₅₀ (rat, inhalation)	5000 ppm/4h
LD ₅₀ (rabbit, skin)	1700 mg/kg

Butyl acetate

LD ₅₀ (rat, ingestion)	10768 mg/kg
LC ₅₀ (rat, inhalation)	390 ppm/4h
LD ₅₀ (rabbit, skin)	17600 mg/kg

methyl-n-amyl ketone

LD ₅₀ (rat, ingestion)	1.600 mg/kg
LC ₅₀ (rat, inhalation)	2000-4000 ppm/4h

b) Irritating effect

Skin: irritating to skin and mucous membrane

Eyes: irritating effect

c) Caustic effect

Mixture is not classified as caustic. No available data confirming the hazard class.

d) Allergic effects

Contains an ingredient (EC no: 400-830-7) described as R43. May cause sensitization by skin contact.

e) Toxicity for repeated exposure

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

f) Carcinogenicity

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

g) Mutagenicity

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

h) Harmful effect on reproduction

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

Exposure methods:

Respiratory tract: Harmful in case of inhalation.

Skin: Harmful to skin. May cause skin dryness or cracking. Possible an allergic reaction.

Eyes: Irritating to eyes.

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

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

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Water hazard class: 2

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; may cause long term adverse effects in aquatic environment.

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 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

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.

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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**
- Directive 67/548 /EEC (2006/121/EC)
- Directive 91/155/EEC (2001/58/EC)
- Directive 1999/45/EC (2006/8/EC)
- REACH – Regulation 2006/1907/EC
- CLP – Regulation 1272/2008/EC

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:

R10 Flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R20/22 Harmful by inhalation and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R38 Irritating to skin.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
Flammable Liquids 2/3
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour
Aspiration Toxicity 1
H304 May be fatal if swallowed and enters airways.
STOT SE 3 Toxic effect on target organs – single exposure, cat. 3
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
Acute Toxicity 4
H332 Harmful if inhaled
H302 Harmful if swallowed.
Skin Irritation 2
H315 Causes skin irritation (category 2)
Eye Damage 1
H318 Causes serious eye damage.
Skin Sensitization 1
H317 May cause an allergic skin reaction.
Eye Irritation 2
H319 Causes serious eye irritation.
Aquatic Chronic 2
H411 Toxic to aquatic life with long-lasting effects.
Aquatic Chronic 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.

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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.