ACRYLIC CLEAR COAT 2+1 HS

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

1.1. Product identification

ACRYLIC CLEAR COAT 2+1 HS

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

Acrylic clear coat (component A) 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. Warszawska 36a
PL 42-240 Rudniki
Tel: +48 34 329 45 03
Fax:+48 34 320 12 16

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

1.4. Emergency telephone

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

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:
Causes skin irritation. (Skin Irrit.2)
May cause drowsiness or dizziness. (STOT SE 3)
Flammable liquid and vapour. (Flam. Liq. 3)

2.2. Label elements:

Contains xylene
Pictograms:

Warning word: **Warning**
Risk index:
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identification

Acrylic clear coat 2+1 HS

Butyl acetate
15-30%
EC: 204-658-1
CAS: 123-86-4
Index no: 607-025-00-1
Registration no: 01-2119485493-29-XXXX
Classification 1272/2008/WE:
Flam. Liq. 3; H226;
STOT SE 3; H336

Xylene
5-15%
EC: 215-535-7
CAS: 1330-20-7
Index no: 601-022-00-9
Registration no: 01-2119539452-40-XXXX
Classification 1272/2008/EC:
Flam. Liq. 3; H226;
Acute Tox. 4; H332
Acute Tox. 4; H312
Skin Irrit.2; H315

1-metoxy –2-propanol acetate
10-15%
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 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, 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 comea 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.

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)

ACRYLIC CLEAR COAT 2+1 HS

For professional use in car refinish 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/m3)	MPIC (mg/m3)	MPCC (mg/m3)
1330-20-7	Xylene	100	---	---
123-86-4	Butyl acetate	200	950	---
108-65-6	1-metoxy–2-propanol acetate	260	520	---
112-07-2	Butyl glycol acetate	100	300	

National acceptable biological values:

CAS NUMER 1330-20-7
SUBSTANCE ABSORBED Xylene
SUBSTANCE MARKED methyl hippuric acid
BIOLOGICAL MATERIAL urine*
PCB VALUE 0,75 g/g creatinine
Notice: * single sample, taken at the end of a daily exposure any day.

PN-EN 482:2009 Workplace Atmospheres – General Requirements for the Performance of Procedures for the Measurement of Chemical Agents.
PN-EN-689: 2002. Workplace Atmospheres – Guidance for the Assessment of Exposure by Inhalation to Chemical Agents for Comparison with Limit Values and Measurement Strategy.
PN Z-04008-7:2002 Air Cleanness Protection - Sampling - Principles of Sampling Air in the Working Environment and Interpreting the Results.
PN-78/Z-04119.01 Air Cleanness Protection – Tests for acetate esters – Determination of Methyl, Ethyl, Propyl, Butyl and Amyl acetates in Work Places by Gas Chromatography with Sample Enrichment.
PN-78/Z-04116.01 Air Cleanness Protection – Tests for Xylene – Determination of Xylene in Work Places by Gas Chromatography with Sample Enrichment.

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 appearance
liquid
Colour
clear
Odour
strong, powerful
Odour threshold
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
Ca. 435°C
Breakdown point
Not specified
Evaporation rate
Not specified
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
Ca. 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.

SEKCJA 10: STABILNOŚĆ I REAKTYWNOŚĆ

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. 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

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

1-metoxy –2-propanol acetate
LD50 (rat, ingestion) 8532mg/kg
LD50 (rabbit, skin) 5000 mg/kg

Butyl glycol acetate
LD50 (rat, ingestion) 2400mg/kg
LD50 (rabbit, skin) 1500 mg/kg

b) 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 system or skin
Mixture is not classified as causing allergy. No available data confirming the hazard class.

e) Mutagenicity
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
Mixture is not classified as having harmful effect on 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
No available data confirming the hazard class.

j) Hazards caused by aspiration
No available data confirming the hazard class.

Exposure methods:
Respiratory system: possible irritating effect.
Skin: Causes skin irritation.
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

1-metoxy –2-propanol 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 EC50/17h 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 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
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.

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.
CAUTION: *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.

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

- European Agreement on international carriage of dangerous goods by road. ADR 2013-2015, IMDG Code2012 Edition
- · Regulation (EC) no 1907/2006 of the European Parliament and of the Council of December 18 2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing 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

- Regulation of the European Parliament and of the Council (EC) No 453/2010 of May 20 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of December 18 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Regulation of the European Parliament and of the Council (EC) No 1272/2008 of December 16 2008 on Classification, Labeling 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 the EU L 353 of December 31 2008).

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.3 Flammable liquids cat. 3
H226 Flammable liquid and vapours.
STOT SE 3 Toxic effect on target organs – single exposure,cat. 3
H336 May cause drowsiness or dizziness.
Acute Tox. 4 Acute toxicity category 4
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
Skin Irrit. 2 Irritating to skin, cat. 2
H315 Causes skin irritation (category 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 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