

CLEARCOAT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1. Product identifier

CLEARCOAT

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

Acrylic clearcoat (component A) for application with the use of a spray gun. For professional use in car refinsh.

1.3. Data of the supplier Safety Data Sheet

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1.4. Emergency telephone number +48 61 810-99-09 (from 7.00 to 15.00)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification 1999/45/EC:

The mixture was classified as dangerous pursuant to current regulations - see section 15. Harmful mixture. Harmful by inhalatio. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Highly flammable product

2.2. Label elements:

Contains:
Signs:

isobutyl methyl ketone, methyl methacrylate



Risk symbols:

Xn Harmful
F Highly flammable

Risk index:

R11

Highly flammable

R20

Harmful by inhalation.

R43

May cause sensitization by skin contact.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66

Repeated exposure may cause skin dryness or cracking.

Safety index:

S(2-)

Keep out of the reach of children.

S16

Keep away from sources of ignition - No smoking.

S23

Do not breathe vapour/spray.

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S38

In case of insufficient ventilation, wear suitable respiratory equipment.

S46

If swallowed, seek medical advice immediately and show this container or label

2.3. Other hazards

No available data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.







3.2. Mixtures

Product identification

CLEARCOAT











CLEARCOAT

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS cont.

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.:--	Classification 67/548/EEC: R10, R66-67 Classification 1272/2008/EC: Flam. Liq. 3; H226; STOT SE 3; H336 Marking: GHS02 GHS07; Wng; H226, H336, EUH066	20-25
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.:--	Classification 67/548/EEC: R10, Xn; R20/21 Xi; R38  Classification 1272/2008/EC: Flam. Liq. 3; H226; Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit.2; H315 Marking: GHS02, GHS07; Wng; H226, H332, H312, H315	5-10
1-methoxy-2-propanol acetate	EC: 203-603-9 CAS: 108-65-6 Index no.: 607-195-00-7 Registration no.:--	Classification 67/548/EEC: R10 Classification 1272/2008/EC: Flam. Liq. 3; H226; Marking: GHS02 Wng; H226	10-15
isobutyl methyl ketone	WE: 203-550-1 CAS: 108-10-1 Nr Indeksu: 606-004-00-4 Nr rejestracji: --	Classification 67/548/EWG: F: R11 Xn; R20 Xi; R36/37 R66   Classification 1272/2008/WE Flam. Liq. 2; H225 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 Marking: GHS02, GHS07; Dgr; H225, H332, H319, H335, EUH066	5-10
2-butoxyethyl acetate	WE: 203-933-3 CAS: 112-07-2 Index no.: 607-038-00-2 Registration no.:--	Classification 67/548/EWG: Xn; R20/21  Classification 1272/2008/WE: Acute Tox. 4; H332 Acute Tox. 4; H312 Marking: GHS07; Wng; H332, H312,	2-3
Ethylbenzene	WE: 202-849-4 CAS: 100-41-4 Index no.: 601-023-00-4 Registration no.:--	Classification 67/548/EWG: F; R11 Xn; R20   Classification 1272/2008/WE: Flam. Liq. 2; H225 Acute Tox. 4; H332 Marking: GHS02, GHS07; Dgr; H225, H332	2-3

CLEARCOAT

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS cont.

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Methyl methacrylate	WE: 201-297-1 CAS: 80-62-6 Index no.: 607-035-00-6 Registration no.:--	Classification 67/548/EWG: F; R11 Xi; R37/38 R43   Classification 1272/2008/WE: Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317 Marking: GHS08, GHS07; Dgr; H225, H335, H315, H317	<1
α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-4-hydroxypoly(oxyethylene)	WE: 400-830-7 CAS:104810-48-2 Index no.: 607-176-00-3 Registration no.:--	Classification 67/548/EWG: Xi, R43 N, R51/53   Classification 1272/2008/WE: Skin Sens. 1; H317 Aquatic Chronic 2; H411 Marking: GHS07; GHS09; Wng.; H317, H411	<0,4
α -3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl)-omega-3-(3-(2H-benzo-triazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)	WE: 400-830-7 CAS: 104810-47-1 Index no.: 607-176-00-3 Registration no.:--	Classification 67/548/EWG: Xi, R43 N, R51/53   Classification 1272/2008/WE: Skin Sens. 1; H317 Aquatic Chronic 2; H411 Marking: GHS07; GHS09; Wng.; H317, H411	<0,25
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	WE: 255-437-1 CAS: 41556-26-7 Index no.: -- Registration no.:--	Classification 67/548/EWG Xi, N R: 43, R50/53   Classification 1272/2008/WE: ----	<0.3
Solvent naphtha (petroleum), light arom.	WE: 265-199-0 CAS: 64742-95-6 Index no.: 649-356-00-4 Registration no.:--	Classification 67/548/EWG: Note H and Note P contains less than 0,1 % w/w benzene (Einecs No 200-753-7) R10 Xn; R65 Xi; R37 N; R51/53 R66-67   Classification 1272/2008/WE: Carc. 1B; H350 Muta. 1B; H340 Asp. Tox. 1; H304 Marking: GHS08; Dgr; H350, H340, H304	<0.3

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

CLEARCOAT

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

See section 11 of the Safety Data Sheet.

Inhalation:

Take the victim outside into fresh air, ensure quiet surrounding; in case of no breath, apply artificial respiration. Call a doctor.

Skin:

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

Eyes:

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

Alimentary tract:

Do not provoke 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 and effects, both acute and delayed

Vapours might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture. May cause sensitization by skin contact.

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

Fire may cause generation of carbon dioxide and other toxic gases.

5.3. Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For persons not being the members of aid giving staff:

Eliminate sources of ignition. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures - section 8 of the Safety Data Sheet.

For persons giving aid:

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 Safety Data Sheet.

Disposal considerations - see section 13 of the Safety Data Sheet.

CLEARCOAT

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Special end use(s)

Acryl clearcoat (component A) for application with a spray gun. 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

8.1. Control parameters

Xylene CAS 1330-20-7 according to:

- *TRGS 900*: MAK: 100ppm, MAK: 440 mg/m³, 2(II),DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m³, 220mg/m³, STEL 100ppm, 441 mg/m³, Sk, BMGV

2-methoxy-1-methylethyl acetate CAS 108-65-6 according to:

- *TRGS 900*: MAK: 50ppm, MAK: 270 mg/m³, 1(I),DFG, EU, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 274 mg/m³, STEL 100ppm, 548 mg/m³, Sk

Butyl acetate CAS 123-86-4 according to:

- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 150 ppm, 724 mg/m³, STEL 200ppm, 966 mg/m³

Butylglycol acetate CAS 112-07-2 according to:

- *TRGS 900*: MAK: 20ppm, MAK:130 mg/m³, 4(II) DFG, H, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 20 ppm, STEL 50ppm, Sk

Ethylbenzen CAS 100-41-4 according to:

- *TRGS 900*: MAK: 100ppm, MAK: 440 mg/m³, 2(I),EU, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 100 ppm, 441mg/m³, STEL 125ppm, 552 mg/m³, Sk

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.

CLEARCOAT

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colorless
Odour	strong, powerful
Odour threshold	0.9-9 mg/m ³ (xylene)
pH	not applicable
Melting/freezing point	not applicable
Boiling point	120-130°C
Flash point	Approx.. 20°C
Autoignition point	about 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	10 hPa (20°C)
Vapour density (with regard to air)	4.0 (butyl acetate)
Density	about 1.0 g/cm ³ (20°C)
Solubility (in water)	poor
N-octanol/water division ratio	1.85 (butyl acetate)
Viscosity	200 s
Explosive properties	not applicable
Oxidizing properties	not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product remains 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

Highly flammable product. Avoid contact with strongly oxidizing agents, 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 was performed based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Xylene	LD ₅₀ (rat, ingestion)	5000 mg/kg
	LC ₅₀ (rat, inhalation)	4550 ppm/4h
Butyl acetate	LD ₅₀ (rat, ingestion)	14000 mg/kg
	LC ₅₀ (rat, inhalation)	9660 mg/m ³ /8h
1-methoxy-2-propanol acetate	LD ₅₀ (rat, ingestion)	8532 mg/kg
Ethylbenzene	LD ₅₀ (rat, ingestion)	3500mg/kg
2-butoxyethyl acetate	LD ₅₀ (rat, ingestion)	2400mg/kg
isobutyl methyl ketone	LD ₅₀ (rat, ingestion)	2080mg/kg
	LC ₅₀ (rat, inhalation)	100gm/m ³

CLEARCOAT

SECTION 11: TOXICOLOGICAL INFORMATION

b) Irritating effect

Skin: irritating to skin and mucous membrane
Eyes: irritating effect

c) Caustic effect

The mixture has not been classified as caustic. No available data confirming the hazard class.

d) Allergenic effects

May cause sensitization by skin contact.

e) Toxicity for repeated exposure

Repeated exposure might cause skin dryness or rupture. Vapours may cause drowsiness and dizziness. May cause sensitization by skin contact.

f) Cancerogenity

The mixture has not been classified as cancerogenic. No available data confirming the hazard class.

g) Mutagenity

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

h) Harmful effect on reproduction

The mixture has not been classified as having any harmful effect on reproduction. No available data confirming the hazard class.

Exposure methods:

Inhalation: Harmful in case of inhalation.

Skin: May cause sensitization by skin contact.

Eyes: May cause irritating effect.

If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhoea.

Poisoning symptoms:

Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in exceptional instances, loss of consciousness. Vapours might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture.

SECTION 12: ECOLOGICAL INFORMATION

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

12.1. Toxicity

1-methoxy-2-propanol acetate	Daphnia magna EC50 (48hours.) > 500 mg/l Oncorhynchus mykiss (rainbow trout)/LC50 (96 hours) 100-180 mg/l Number in the catalogue of water hazardous substances: 5033 Water hazard class: 1
Xylene	Daphnia magna EC50 (48hours.) > 7.4 mg/l Evaluation indicator of acute toxicity for mammals: 3; for fish: 4.1 Number in the catalogue of water hazardous substances: 206 Water hazard class: 2
Butyl acetate	Number in the catalogue of water hazardous substances: 42 Water hazard class: 1
2-butoxyethyl acetate	Toxicity for fish EC50/17h 960 mg/l Number in the catalogue of water hazardous substances: 592 Water hazard class: 1
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Daphnia magna /EC50 (24h) 20 mg/l
Ethylbenzene	Daphnia magna/EC50 (24) 73 mg/l Number in the catalogue of water hazardous substances: 99 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

CLEARCOAT

SECTION 12: ECOLOGICAL INFORMATION

12.4. Mobility in soil

Product very poorly soluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The product must be disposed of in compliance with proper local and statutory regulations with regard to waste - see point 15. The product should be disposed with entities which are authorised to conduct activity in the area of collecting, recycling or utilization of waste.

Product remains:

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. The hardened product is not harmful waste.

CAUTION: harden the remains in small portions and keep them away from flammable products. High amounts of heat are released during chemical reaction!

Contaminated container:

A container containing unhardened remains of the product is harmful waste. Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover or disposal.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMO/IMGD	IATA-DGR
14.1. UN number	1866	1866	1866
14.2. UN proper shipping name	RESIN SOLUTION, flammable		
14.3. Transport hazard class(es)	3	3	3
14.4. Packaging group	II	II	II
14.5. Environmental hazards	none	none	none
14.6. Special precautions for user	Do not transport together with materials of class 1 (excluding materials of class 1.4S) and some materials of classes 4.1 and 5.2. During transport, avoid direct contact with materials of classes 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/legislation specific for the substance or mixture

Directive 67/548/EWG(2006/121/WE)

Directive 91/155/EWG (2001/58/WE)

Directive 1999/45/EC (2006/8/WE)

REACH - Regulation 2006/1907/WE

CLP - Regulation 1272/2008/WE

15.2. Chemical safety assessment

Not performed

CLEARCOAT

SECTION 16: OTHER INFORMATION

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

R10 Flammable
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with the skin
R20/22 Harmful by inhalation and if swallowed
R36/37 Irritating to eyes and respiratory system.
R38 Irritating to skin.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic 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.
Flam.Liq.2/3 Liquid, flammable substances, category 2/3
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
Carc. 1B H350 May cause cancer
Muta. 1B H340 May cause genetic defects
Asp. Tox. 1
H304 May be fatal if swallowed and enters airways.
STOT SE 3 Toxic effect on target organs – single exposure, category 3
H335 May cause respiratory irritation.
H336 Might cause drowsiness or or dizziness.
Acute Tox. 4. Acute toxicity, category 4
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
Skin Irrit. 2 Caustic/irritating effect on skin, category 2
H315 Causes skin irritation.
Skin Sens. 1
H317 May cause an allergic skin reaction.
Aquatic Chronic 2
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure might cause skin dryness or rupture.

Explanation of the abbreviations and acronyms used in the Safety Data Sheet

GHS02 – "flame" pictogram code

GHS07 – "exclamation mark" pictogram code

Wng – "caution" warning notice codes

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 mention 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

ADR – European agreement on international road transport of hazardous materials

IMO – International Marine Organization

RID – Regulations for international rail transport of hazardous materials

IMDG-Code – International marine code for hazardous materials

ICAO /IATA – Technical Instructions for Safe Air Transport of Hazardous Materials

The information is based on our current knowledge. This document shall not constitute warranty for product characteristics. Classification of the mixture results from the application of the classification rules contained in Directive 1999/45/EC.

Other sources of information

ESIS European Chemical Substances Information System

TOXNET Toxicology Data Network

IUCLID International Uniform Chemical Information Database

Changes: General update

Trainings:

With regard to handling, health and safety while working with hazardous substances and mixtures.

With regard to transport of hazardous goods pursuant to the requirements of ADR regulations.

Issued by: NOVOL Sp. z o.o.

Information available from: Research and Development Laboratory, tel. +48 61 810 99 09.