

**KLARLACK 410 GLOSS ACRYLIC CLEARCOAT**

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

**1.1. Product identifier**

**KLARLACK 410 GLOSS ACRYLIC 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 refinishing.

**1.3. Data of the supplier Safety Data Sheet**

**NOVOL Sp. z o.o.**  
Ul. Żabikowska 7/9  
PL 62-052 Komorniki  
Registration number: 000024104

Tel: +48 61 810-98-00  
Fax: +48 61 810-98-09  
[www.novol.pl](http://www.novol.pl)  
[novol@novol.pl](mailto:novol@novol.pl)

**Person responsible for the Safety Data Sheet** [dokumentacja@novol.pl](mailto:dokumentacja@novol.pl)

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

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

The mixture was classified as dangerous pursuant to current regulations - see Section 15.

**Classification 1272/2008/EC:**

Skin irritant, hazard category 2 (Skin Irrit. 2). Irritating to skin.

Sensitisation — Skin, category 1 (Skin Sens. 1). May cause an allergic skin reaction.

Specific target organ toxicity – single exposure, hazard category 3, narcotic effects (STOT SE 3). May cause drowsiness or dizziness.

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

**2.2. Label elements:**

Contains:

Pictograms:

Xylene



Signal word:

Warning

H226

H315

H317

H336

Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

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 available data.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (cont'd)**

**3.2. Mixtures**

<b>Product identifier</b>			
KLARLACK 410 GLOSS ACRYLIC CLEARCOAT			
<b>Substance name</b>	<b>Identification numbers</b>	<b>Classification and marking</b>	<b>Concentration [wt%]</b>
n-Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.: 01-2119485493-29-XXXX	Flam. Liq. 3; H226; STOT SE 3; H336 EUH066	20-30
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.: 01-2119539452-40-XXXX	Flam. Liq. 3; H226; Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit.2; H315	10-15
1-methoxy-2-propanol acetate	EC: 203-603-9 CAS: 108-65-6 Index no.: 607-195-00-7 Registration no.: 01-2119475791-29-XXXX	Flam. Liq. 3; H226;	5-10
2-butoxyethyl acetate	WE: 203-933-3 CAS: 112-07-2 Index no.: 607-038-00-2 Registration no.: 01-2119475112-47-XXXX	Acute Tox. 4; H332 Acute Tox. 4; H312	1-5
Ethylbenzene	EC: 202-849-4 CAS: 100-41-4 Index no.: 601-023-00-4 Registration no.: 01-2119489370-35-XXXX	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Acute Tox. 1; H304	1-2
Reaction mass of $\alpha$ -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-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	WE: 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	Skin Sens. 1; H317 Aquatic Chronic 2; H411	<1,3

The full text of the hazard statements (H) is provided in Section 16.

**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.

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**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

**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.

**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.

**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.

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**SECTION 7: HANDLING AND STORAGE**

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

Acrylic clearcoats (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/m<sup>3</sup>, 2(II),DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m<sup>3</sup>, 220mg/m<sup>3</sup>, STEL 100ppm, 441 mg/m<sup>3</sup>, Sk, BMGV

Ethylbenzen CAS 100-41-4 according to:

- *TRGS 900:* MAK: 100ppm, MAK: 440 mg/m<sup>3</sup>, 2(I),EU, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 100 ppm, 441mg/m<sup>3</sup>, STEL 125ppm, 552 mg/m<sup>3</sup>, 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/m<sup>3</sup>, STEL 200ppm, 966 mg/m<sup>3</sup>

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

- *TRGS 900:* MAK: 50ppm, MAK: 270 mg/m<sup>3</sup>, 1(I),DFG, EU, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 274 mg/m<sup>3</sup>, STEL 100ppm, 548 mg/m<sup>3</sup>, 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.

**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 <sup>3</sup> (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	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)

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

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 division ratio	1.85 (butyl acetate)
Viscosity	200s
Explosive properties	not applicable
Oxidizing properties	not applicable

**9.2 Other information**

No available data.

**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**

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 <sub>50</sub> (rat, ingestion)	5000 mg/kg
	LC <sub>50</sub> (rat, inhalation)	4550 ppm/4h
Butyl acetate	LD <sub>50</sub> (rat, ingestion)	14000 mg/kg
	LC <sub>50</sub> (rat, inhalation)	9660 mg/m <sup>3</sup> /8h
1-methoxy-2-propanol acetate	LD <sub>50</sub> (rat, ingestion)	8532 mg/kg
Ethylbenzen	LD <sub>50</sub> (rat, ingestion)	3500mg/kg

**b) skin corrosion/irritation**

Causes skin irritation.

**c) serious eye damage/irritation**

No available data confirming the hazard class.

**d) respiratory or skin sensitisation**

May cause an allergic skin reaction.

**e) germ cell mutagenicity**

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

**f) carcinogenicity**

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

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**g) reproductive toxicity**

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

**h) STOT-single exposure**

No available data confirming the hazard class.

**i) STOT- repeated exposure**

No available data confirming the hazard class.

**j) aspiration hazard**

No available data confirming the hazard class.

**Exposure methods:**

Inhalation: Irritating effect.

Skin: Causes skin irritation. May cause an allergic skin reaction.

Eyes: Irritating effect.

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

**Poisoning symptoms:**

Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in exceptional instances, loss of consciousness.

Fumes 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**

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

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

Ethylbenzen

Daphnia magna /EC50 (24h) 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

**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**

No available data.

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**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		
14.3. Transport hazard class(es)	3	3	3
14.4. Packaging group	III	III	III
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 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**

REACH - Regulation 2006/1907/WE

CLP - Regulation 1272/2008/WE

**15.2. Chemical safety assessment**

Not performed

**SECTION 16: OTHER INFORMATION**

**Relevant hazard statements listed in Sections 2 to 15:**

H225 Highly flammable liquid and vapour

Flam. Liq. 3 Flammable liquid. Category 3

H226 Flammable liquid and vapour

STOT SE 3 Specific target organ toxicity – single exposure, Category 3

H336 May cause drowsiness or dizziness

Acute Tox. 4 Acute toxicity. Category 4

H332 Harmful if inhaled

H312 Harmful in contact with skin

**KLARLACK 410 GLOSS ACRYLIC CLEARCOAT**

**SECTION 16: OTHER INFORMATION**

**Relevant hazard statements listed in Sections 2 to 15:**

Skin Irrit. 2 Corrosive/irritating effect on skin. Category 2  
H315 Causes skin irritation (Category 2)  
Skin Sens. 1 Sensitisation — Skin, Hazard Category 1  
H317 May cause an allergic skin reaction.  
Aquatic Chronic 2 Hazardous to the aquatic environment. Category 2  
H411 Toxic to aquatic life with long lasting effects  
Asp. Tox. 1 Aspiration hazard. Category 1  
H304 May be fatal if swallowed and enters airways  
STOT RE 2 Specific target organ toxicity — Repeated exposure, Hazard Category 2  
H373 May cause damage to organs through prolonged or repeated exposure.  
EUH066 Repeated exposure may cause skin dryness or cracking

**Abbreviations and acronyms:**

**CAS no.** — a 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 **E**uropean **L**ist of **N**otified **C**hemical **S**ubstances (ELINCS), or a number in the "No-longer polymers" publication listed **E**uropean **I**nventory of **E**xisting **C**hemical **S**ubstances (EINECS).

**MPC** — (Poland: NDS) maximum permissible concentration of health hazardous substances in the work place.

**MPIC** — (Poland: NDSC) maximum permissible instantaneous concentration.

**MPCC** — (Poland: NDSP) maximum permissible ceiling concentration.

**PCB** — (Poland: DSB) 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 Dangerous Materials.

**ICAO /IATA** — Technical Instructions for the Safe Transport of Dangerous Goods by Air.

The information is based on our current knowledge. This document shall not constitute warranty for product characteristics. Classification was made by calculation method according to the classification rules contained in Regulation 1272/2008/WE.

**Other sources of information**

**ECHA** European Chemicals Agency

**TOXNET** Toxicology Data Network

**IUCLID** International Uniform Chemical Information Database

Changes: General update

**Training:**

In handling, health and safety while working with hazardous substances and mixtures.

In 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.