SPECTRAL KLAR 505 ACRYLIC CLEARCOAT

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

1.1. Product identifier

SPECTRAL KLAR 505 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 refinish.

1.3. Data of the supplier Safety Data Sheet

NOVOL Sp. z o.o.
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Person responsible for the Safety Data Sheet dokumentacja@novol.pl

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

Classification 1272/2008/WE:
Sensitisation — Skin, Hazard Category 1May cause an allergic skin reaction.
Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis (STOT SE 3). May cause drowsiness or dizziness.
Hazardous to the aquatic environment — Chronic Hazard, Category 3 (Aquatic Chronic 3). Harmful to aquatic life with long lasting effects.
Repeated exposure may cause skin dryness or cracking.
Liquid, flammable substances, category 3 (Flam. Liq. 3). Flammable liquid and vapour.

Classification 1999/45/EC:
Irritant. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Flammable product.

2.2. Label elements:

Contains: Butyl acetate

Pictograms:

Signal word: Warning

H226	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.
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.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable.

3.2. Mixtures

Product identification SPECTRAL KLAR 505 ACRYLIC CLEARCOAT

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.: 01-2119485493-29-XXXX	Classification 67/548/EEC: R10, R66-67 Classification 1272/2008/EC: Flam. Liq. 3; H226; STOT SE 3; H336 EUH066	15-30
methyl amyl ketone	WE: 203-767-1 CAS: 110-43-0 Index no.: 606-024-00-3 Registration no.: 01-2119902391-49-XXXX	Classification 67/548/EWG: R10 Xn; R20/22 Classification 1272/2008/WE: Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H302	10-15
Hydrocarbons, C9, aromatics	WE: 918-668-5 CAS: -- Index no.: NA Registration no.: 01-2119455851-35-XXXX	Classification 67/548/EWG: R10 Xn; R65 Xi; R37 N; R51/53 R66-67 Classification 1272/2008/WE: Flam. Liq. 3; H226 STOT SE 3; H335; H336 Asp. Tox. 1; H304 Aquatic Chronic 2 H411 EUH066	<2
reaction mass of α-3-(3-(2*H*-benzotriazol-2-yl)-5-*tert*-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2*H*-benzotriazol-2-yl)-5-*tert*-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2*H*-benzotriazol-2-yl)-5-*tert*-butyl-4-hydroxyphenyl)propionyloxy poly(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	Classification 67/548/EWG: Xi, R43 N, R51/53 Klasyfikacja 1272/2008/WE: Skin Sens. 1; H317 Aquatic Chronic 2; H411	<1.5

Full text of the phrases identifying the types of hazards and R phrases 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.

SPECTRAL KLAR 505 ACRYLIC CLEARCOAT

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.

7.3. Special end use(s)
Acrylic 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.

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

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^3, STEL 200ppm, 966 mg/m^3

Methyl amyl ketone CAS 110-43-0 according to:

- *TRGS 900:* MAK: 238 mg/m^3, 2(I),DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m^3, 237mg/m^3, STEL 100ppm, 475 mg/m^3, Sk

1,2,4-trimethylbenzene CAS 95-63-6 according to:

- *TRGS 900:* MAK: 20ppm, MAK: 100 mg/m^3, 2(II),DFG, EU, Y

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^3 (xylene)
pH	not applicable
Melting/freezing point	not applicable
Boiling point	120-130℃
Flash point	26℃
Autoignition point	about 435℃
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℃)
Vapour density (with regard to air)	4.0 (butyl acetate)
Density	about 1.0 g/cm^3 (20℃)
Solubility (in water)	poor
N-octanol/water division ratio	1.85 (butyl acetate)
Viscosity	200 s
Explosive properties	not applicable
Oxidizing properties	not applicable

9.2 Other informations

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

Butyl acetate	LD_{50} (rat, ingestion)	10768 mg/kg
	LC_{50} (rat, inhalation)	390 ppm/4h
	LD_{50} (rabbit, skin)	17600 mg/kg
Methyl amyl ketone	LD_{50} (rat, ingestion)	1670 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
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.

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. Repeated exposure may cause skin dryness or cracking.
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.

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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

Methyl amyl ketone	Toxicity for fish (Pimephales promeles): LC50 131 mg/l/96h Number in the catalogue of water hazardous substances: 3726 Water hazard class: 1
Butyl acetate	Number in the catalogue of water hazardous substances: 42 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
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**	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 73/78 Convention and the IBC Code**
Not applicable.

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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

SECTION 16: OTHER INFORMATION

Full text of the phrases identifying the types of hazards and R phrases mentioned in sections 2-15
R10 Flammable
R20/22 Harmful by inhalation and if swallowed
R37 Irritating to respiratory system.
R43 May cause sensitization by skin contact.
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.3 Liquid, flammable substances, category 3
H226 Flammable liquid and vapour.
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
H304 May be fatal if swallowed and enters airways.
STOT SE 3 Specific target organ toxicity– single exposure, category 3
H335 May causa respiratory irritation.
H336 Might cause drowsiness or or dizziness.
Acute Tox. 4. Acute toxicity, category 4
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H302 Harmful if swallowed.
Skin Sens. 1 Sensitisation — Skin, Hazard Category 1
H317 May causa an allergic reaction.
Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Explanation of the abbreviations and acronyms used in the 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 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.

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.
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