SAFETY DATA SHEET
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NOVAKRYL 5600 ACRYLIC CLEARCOAT

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

1.1. Product identifier
NOVAKRYL 5600 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.
Ul. Żabikowska 7/9
PL 62-052 Komorniki
Tel: +48 61 810-98-00
Fax:+48 61 810-98-09
www.novol.pl
Person responsible for the Safety Data Sheet
dokumentacja@novol.pl

1.4. Emergency telephone number
+48 61 810-98-00

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, category 1 (Skin Sens. 1). May 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 2 (Aquatic Chronic 2). Toxic to aquatic life with long lasting effects.
Liquid, flammable substances, category 3 (Flam. Liq. 3). Flammable liquid and vapour.
Repeated exposure may cause skin dryness or cracking.

2.2. Label elements:
Contains: 4-chloro-α,α,α-trifluorotoluene

Pictograms:

Signal word: WARNING
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235 Keep cool.
P240 Ground, bond container and receiving equipment
P241 Use ventilating equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapours, spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection, face protection.
P363 Wash contaminated clothing before reuse.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P333 + P313 If skin irritation or rash occurs: Get medical advice.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a doctor if you feel unwell.
**SECTION 2: HAZARD IDENTIFICATION**

### 2.2. Label elements:

- P370 + P378
- P403 + P233
- P405
- P501

- **In case of fire:** Use dry chemical powder for extinction.
- **Store in a well-ventilated place.** Keep container tightly closed.
- **Dispose of contents and container in accordance with local, state and federal regulations.**

### 2.3. Other hazards

No available data.

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

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Identification numbers</th>
<th>Classification and marking</th>
<th>Concentration [wt%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-chloro-α,α,α-trifluorotoluene</td>
<td>WE: 202-681-1, CAS: 98-56-6, Index no.: ---, Registration no.: 05-2114106385-56-XXXX</td>
<td>Flam. Liq. 3; H226; Skin Sens. 1B; H317; Aquatic Chronic 2; H411</td>
<td>20-25</td>
</tr>
<tr>
<td>Butyl acetate</td>
<td>WE: 204-658-1, CAS: 123-86-4, Index no.: 607-025-00-1, Registration no.: 01-2119485493-29-XXXX</td>
<td>Flam. Liq. 3; H226; STOT SE 3; H336 EUH066</td>
<td>16-20</td>
</tr>
<tr>
<td>Methyl amyl ketone</td>
<td>WE: 203-767-1, CAS: 110-43-0, Index no.: 606-024-00-3, Registration no.: 01-2119902391-49-XXXX</td>
<td>Flam. Liq. 3; H226; Acute Tox. 4; H332; Acute Tox. 4; H302</td>
<td>1-5</td>
</tr>
<tr>
<td>Acetone</td>
<td>WE: 200-662-2, CAS: 67-64-1, Index no.: 606-001-00-8, Registration no.: 01-2119471330-49-XXXX</td>
<td>Flam. Liq. 2; H225; Eye Irrit.2; H319; STOT SE 3, H336 EUH066</td>
<td>&lt;2,5</td>
</tr>
<tr>
<td>Xylene</td>
<td>WE: 215-535-7, CAS: 1330-20-7, Nr Indeksu: 601-022-00-9, Nr rejestracji: 01-2119539452-40-XXXX</td>
<td>Flam. Liq. 3; H226; Acute Tox. 4; H332; Acute Tox. 4; H312; Skin Irrit.2; H315</td>
<td>&lt;2,5</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>WE: 202-849-4, CAS: 100-41-4, Nr Indeksu: 601-023-00-4, Nr rejestracji: 01-2119489370-35-XXXX</td>
<td>Flam. Liq. 2; H225; Acute Tox. 4; H332</td>
<td>&lt;2</td>
</tr>
<tr>
<td>2-butoxyethyl acetate</td>
<td>WE: 203-933-3, CAS: 112-07-2, Nr Indeksu: 607-038-00-2, Nr rejestracji: 01-2119475112-47-XXXX</td>
<td>Acute Tox. 4; H332; Acute Tox. 4; H312</td>
<td>&lt;1,5</td>
</tr>
</tbody>
</table>
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Identification numbers</th>
<th>Classification and marking</th>
<th>Concentration [wt%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypropoxy(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)</td>
<td>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</td>
<td>Skin Sens. 1; H317 Aquatic Chronic 2; H411</td>
<td>&lt;1,5</td>
</tr>
</tbody>
</table>

Full text of the phrases identifying the types of hazards 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.

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)
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

Acetone CAS 67-64-1 according to:
- TRGS 900: MAK: 500 ppm, MAK: 1200 mg/m³, 2(l), DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 500 ppm 1210 mg/m³, STEL 1500 ppm, 3620 mg/m³

Xylene CAS 1330-20-7 according to:
- TRGS 900: MAK: 100 ppm, MAK: 440 mg/m³, 2(l), DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m³ 220 mg/m³, STEL 100 ppm, 441 mg/m³, Sk, BMGV

Ethylbenzen CAS 100-41-4 according to:
- TRGS 900: MAK: 100 ppm, MAK: 440 mg/m³, 2(l), EU, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 100 ppm 441 mg/m³, STEL 125 ppm, 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.
8.2. Exposure control
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/m³ (Xylene)
pH                 not applicable
Melting/freezing point not specified
Boiling point    126-145°C, 258.8 - 293°F
Flash point      about 24°C, 75.5°F
Autoignition point about 270-300°C, about 518 - 572°F
Breakdown point  not specified
Evaporation rate  not specified
Flammability (solid, gas) not specified
Explosion limits  % bottom: 2.5 vol%  top: 14.3 vol% (acetone)
Vapour pressure  233 hPa (20°C) (acetone)
Vapour density (with regard to air) 2.0 (acetone)
Density 20°C      about 1.0 g/cm³, 8.34 lb/gal
Solubility (in water) poor
N-octanol/water division ratio no data
Viscosity         no data
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

- Xylene
  - \(LD_{50}\) (rat, ingestion) 4300 mg/kg
  - \(LC_{50}\) (rat, inhalation) 5000 ppm/4h
  - \(LD_{50}\) (rabbit, skin) 1700 mg/kg
- Acetone
  - \(LD_{50}\) (rat, oral) 5800 mg/kg
  - \(LD_{50}\) (rabbit, skin) 20000 mg/kg
  - \(LC_{50}\) (rat, inhalation) 39 mg/m\(^3\)/4h
- Ethylbenzene
  - \(LD_{50}\) (rat, ingestion) 3500 mg/kg
  - \(LC_{50}\) (rat, inhalation) 4000 ppm/4h

b) Skin corrosion/irritation
No available data confirming the hazard class.

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.

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
May cause drowsiness or dizziness.

i) STOT- repeated exposure
No available data confirming the hazard class.

j) aspiration hazard
No available data confirming the hazard class.

Exposure methods:
Inhalation: May cause irritation
Skin: May cause sensitization by skin contact.
Eyes: May cause irritation
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.
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 was performed based on the data on dangerous ingredients included in the preparation.

12.1. Toxicity

- 1-methoxy-2-propanol acetate
  - \(Daphnia magna\) EC\(_{50}\) (48 hours.) > 500 mg/l
  - \(Oncorhynchus mykiss\) (rainbow trout)/LC\(_{50}\) (96 hours) 100-180 mg/l
  - Number in the catalogue of water hazardous substances: 5033
  - Water hazard class: 1

- Xylene
  - \(Daphnia magna\) EC\(_{50}\) (48 hours.) > 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
NOVAKRYL 5600 ACRYLIC CLEARCOAT

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Acetone

Daphnia magna EC50 (48h) 39 mg/l
Number in the catalogue of water hazardous substances: 6
Water hazard class: 1

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
No available data.

12.3. Bioaccumulative potential
No available data.

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
Toxic to aquatic life with long lasting effects.

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

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMO/IMGD</th>
<th>IATA-DGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>1866</td>
<td>1866</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>RESIN SOLUTION, flammable</td>
<td></td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>14.4. Packaging group</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>14.7. Transport in bulk according to Annex II of MARPOL Convention and the IBC Code</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>
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

Full text of the phrases identifying the types of hazards statements mentioned in sections 2-15
Flam.Liq.2 Liquid, flammable substances, Hazard Category 2
H225 Highly flammable liquid and vapour.
Flam. Liq.3 Liquid, flammable substances, Hazard Category 3
H226 Flammable liquid and vapour.
STOT SE 3 Specific target organ toxicity– single exposure, Hazard Category 3
H336 Might cause drowsiness or or dizziness.
Acute Tox. 4. Acute toxicity, Hazard Category 4
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H302 Harmful if swallowed.
Skin Sens. 1 Skin sensation, Hazard Category 1.
H317 May cause an allergic skin reaction.
Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 2
H319 Causes serious eye irritation.
Skin Irrit. 2 Caustic/irritating effect on skin, category 2
H315 Causes skin irritation.
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 mentioned in "No-longer polymers" publication (EINECS)
MPC – maximum permissible concentration of health hazardous substances in the workplace
MPIC – maximum permissible instantaneous concentration
MPCC - maximum permissible ceiling concentration
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

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

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.

Published by: NOVOL Sp. z o.o.