

SPECTRAL ACRYLIC TOPCOAT

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

1.1. Product identifier

SPECTRAL ACRYLIC TOPCOAT

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

Acrylic topcoat (component A) in various colours (see appendix no. 1) 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 61 810-99-09 (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:

Irritating effect on skin, category 2 (Skin Irrit.2). Causes skin irritation.

Carcinogenicity, Hazard Category 1B (Carc. 1B). May cause cancer.

Reproductive toxicity, Hazard Category 1A (Repr. 1A) May damage the unborn child. Suspected of damaging fertility.

Specific target organ toxicity — Repeated exposure, Hazard Category 2 (STOT RE 2). May cause damage to organs through prolonged or repeated exposure.

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.

Classification 1999/45/EC:

Toxic mixture. Harmful by inhalation and in contact with the skin. Repeated exposure may cause skin dryness or cracking.

Danger of cumulative effects. Repr. Cat.1 May cause harm to the unborn child. Repr. Cat.3 Possible risk of impaired fertility.

Carc. Cat. 2 May cause cancer. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Flammable product

2.2. Label elements:

Contains

Contains: Xylene, lead chromate molybdate sulfate red (C.I. 77605), lead sulfochromate yellow (C.I. 77603)

EUH 201

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

Pictograms:



Signal word:

Danger.

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H350

May cause cancer.

H360Df

May damage the unborn child. Suspected of damaging fertility.

H373

May cause damage to organs through prolonged or repeated exposure.

H411

Toxic to aquatic life with long lasting effects.

P201

Obtain special instructions before use.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260

Do not breathe vapours/spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313

IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

No available data.

SPECTRAL ACRYLIC TOPCOAT

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Product identification

SPECTRAL ACRYLIC TOPCOAT

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
lead sulfochromate yellow (C.I. 77603); Pigment Yellow 34	WE: 215-693-7 CAS: 1344-37-2 Index no.: 082-009-00-X Registration no. 01-2119502446-46-XXXX	Classification 67/548/EWG: Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53 Classification 1272/2008/WE: Carc. 1B; H350 Repr. 1A; H360Df STOT RE 2 H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<20
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	5-15
lead chromate molybdate sulfate red (C.I. 77605); Pigment Red104	WE: 235-759-9 CAS: 12656-85-8 Index no.: 082-010-00-5 Registration no.: 01-2119491303-42-XXXX	Classification 67/548/EWG: Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53 Classification 1272/2008/WE: Carc. 1B; H350 Repr. 1A; H360Df STOT RE 2 H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<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	Classification 67/548/EEC: R10 Classification 1272/2008/EC: Flam. Liq. 3; H226;	3-10
xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.: 01-2119539452-40-XXXX	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	3-10

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

SPECTRAL ACRYLIC TOPCOAT

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.

SPECTRAL ACRYLIC TOPCOAT

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 topcoats (component A) for application with a spray gun. For professional use in car refinishing 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

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	according to palette's colour
Odour	strong, powerful
Odour threshold	0.9-9 mg/m ³ (xylene)
pH	not applicable
Melting/freezing point	not applicable
Boiling point	126-190°C
Flash point	23°C
Autoignition point	about 300°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)

SPECTRAL ACRYLIC TOPCOAT

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 1.12 g/cm ³ (20°C)
Solubility (in water)	poor
N-octanol/water division ratio	1.85 (butyl acetate)
Viscosity	120s
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
Butyl acetate	LD ₅₀ (rat, ingestion)	10768 mg/kg
	LC ₅₀ (rat, inhalation)	390 ppm/4h
	LD ₅₀ (rabbit, skin)	17600 mg/kg
1-methoxy-2-propanol acetate	LD ₅₀ (rat, ingestion)	8532 mg/kg
	LD ₅₀ (rabbit, skin)	5000 mg/kg
Pigment red 104:	LD ₅₀ (rat, ingestion)	5000 mg/kg
Pigment yellow 34:	LD ₅₀ (rat, ingestion)	5000 mg/kg

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

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

e) Toxicity for repeated exposure

Danger of cumulative effects. In the case of prolonged consumption of lead compounds may occur in disorders of hemoglobin synthesis. Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

SPECTRAL ACRYLIC TOPCOAT

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

f) Cancerogenity

May cause cancer.

g) Mutagenity

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

h) Harmful effect on reproduction

Possible risk of impaired fertility. May cause harm to the unborn child

Exposure methods: Inhalation: Harmful in case of inhalation.

Skin: Harmful in contact with skin.

Eyes: 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

Pigment red 104, yellow 34

Toxicity for fish LC50>10000 mg/l/96h

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

12.2. Persistence and degradability

No available data.

12.3. Bioaccumulative potential

No available data.

12.4. Mobility in soil

Product insoluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.. Prevent leakage to the sewage system, surface waters, underground waters and soil.

SPECTRAL ACRYLIC TOPCOAT

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	1263	1263	1263
14.2. UN proper shipping name		PAINT	
14.3. Transport hazard class(es)	3	3	3
14.4. Packaging group	III	III	III
14.5. Environmental hazards	yes	--	--
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

SPECTRAL ACRYLIC TOPCOAT

SECTION 16: OTHER INFORMATION

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

R10 Flammable
R20/21 Harmful by inhalation and in contact with the skin
R33 Danger of cumulative effects
R38 Irritating to skin
R45 May cause cancer
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
R61 May cause harm to the unborn child
R62 Possible risk of impaired fertility
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.
STOT SE 3 Specific target organ toxicity– single exposure, category 3
H336 Might cause drowsiness or or dizziness.
Acute Tox. 4. Acute toxicity, category 4
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
Skin Irrit. 2 Caustic/irritating effect on skin, category 2
H315 Causes skin irritation.
EUH066 Repeated exposure might cause skin dryness or rupture.
Carc. 1B Carcinogenicity, Hazard Category 1B
H350 May cause cancer
STOT RE 2 Specific target organ toxicity — Repeated exposure, Hazard Category 2
H373 May cause damage to organs through prolonged or repeated exposure.
Repr. 1A Reproductive Toxicity Hazard Category 1A
H360 Df May damage fertility or the unborn child
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1
H400 Very toxic to aquatic life.
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1
H410 Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2
H411 Toxic to aquatic life with long lasting effects.

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.

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

SPECTRAL ACRYLIC TOPCOAT

APPENDIX 1: LIST OF COLOURS OPTIC

SPECTRAL ACRYLIC TOPCOAT:

S-452 LEMON CHROME, S-412 GOLDEN CHROME, S-141 ORANGE RED