

**BITUMEN UNDERBODY COATING**

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

**1.1. Product identifier**

**BITUMEN UNDERBODY COATING**

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

Bitumen underbody coating, spray version 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

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:**

Aerosols, hazard category 1. Extremely flammable aerosol.

Aerosols, hazard categories 1. Pressurised container: May burst if heated.

Skin irritant hazard category 2 (Skin Irrit. 2). Causes skin irritation.

Eye irritant, hazard category 2 (Eye Irrit. 2). Causes serious eye irritation.

Specific target organ toxicity – single exposure, hazard category 3 (STOT SE Cat. 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.

**2.2. Label elements:**

Contains:

Hydrocarbons, C7-C9, propane, acetone

Pictograms:



Signal word:

Danger

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H411

Toxic to aquatic life with long lasting effects.

P102

Keep out of the reach of children.

P210

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

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P260

Do not breathe vapours/spray.

P273

Avoid release to the environment.

P280

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

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**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 identifier**

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<b>Substance name</b>	<b>Identification numbers</b>	<b>Classification and marking</b>	<b>Concentration [wt%]</b>
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC: 921-024-6 CAS: -- Index no.: -- Registration no.: 01-2119475514-35-XXXX	Flam.Liq. 2, H225 Asp. Tox. 1; H304 Skin Irrit.2; H315 Aquatic Chrinic 2, H411 STOT SE, H336	12,5-20
Propane	EC: 200-827-9 CAS: 74-98-6 Index no.: 601-003-00-5 Registration no.: 01-2119486944-21-XXXX	Flam. Gas. 1; H220; Press. Gas.H280	12.5-20
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	WE: 920-750-0 CAS: -- Index no.: -- Registration no.: 01-2119473851-33-XXXX	Flam.Liq. 2, H225 Asp. Tox. 1; H304 Aquatic Chrinic 2, H411 STOT SE, H336	12,5-20
Acetone	EC: 200-662-2 CAS: 67-64-1 Index no.: 606-001-00-8 Registration no.: 01-2119471330-49-XXXX	Flam. Liq. 2; H225; Eye Irrit.2; H319; STOT SE 3, H336 EUH066	<12.5
Butane	EC: 203-448-7 CAS: 106-97-8 Index no.: 601-004-00-0 Registration no.: 01-2119474691-32-XXXX	Flam. Gas. 1; H220; Press. Gas.H280	5-10
Isobutane	EC: 200-857-2 CAS: 75-28-5 Index no.: 601-004-00-0 Registration no.: 01-2119485395-27-XXXX	Flam. Gas. 1; H220; Press. Gas.H280	5-10
Hydrocarbons, C9, arom.	WE: 918-668-5 CAS: -- Index no.: -- Registration no.: 01-2119455851-35-XXXX	Flam.Liq. 2, H226 Asp. Tox. 1; H304 Aquatic Chrinic 2, H411 STOT SE, H336	1-2.5

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.

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### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### 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

Fumes 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 OF THE SUBSTANCES AND MIXTURES

#### 7.1. Precautions for safe handling

Pressurized container: Do not spray on a naked flame or any incandescent material. Keep away from source of ignition – No smoking. 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.

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**SECTION 7: HANDLING AND STORAGE OF THE SUBSTANCES AND MIXTURES**

**7.2. Conditions for safe storage, including any incompatibilities**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from source of ignition – No smoking. Keep out of the reach of children 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.

**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**

Butane CAS 106-97-8 according to:

- TRGS 900: MAK: 1000ppm, MAK: 2400 mg/m<sup>3</sup>, 4(II),DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 600 ppm: 1450 mg/m<sup>3</sup>, STEL 750ppm, 1810 mg/m<sup>3</sup>

Acetone CAS 67-64-1 according to:

- TRGS 900: MAK: 500ppm, MAK: 1200 mg/m<sup>3</sup>, 2(I),DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 500 ppm: 1210 mg/m<sup>3</sup>, STEL 1500ppm, 3620 mg/m<sup>3</sup>

**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)

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 in aerosol
Colour	according to specification
Odour	strong, powerful
Odour threshold	no data
pH	not applicable
Melting/freezing point	not applicable
Boiling point	not applicable
Flash point	<0°C
Autoignition point	not applicable
Breakdown point	no data
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Explosion limits	% lower: 0.6 vol% upper: 13 vol%
Vapour pressure	3500 hPa (20°C)
Vapour density (with regard to air)	No data
Density	about 0.7 g/cm <sup>3</sup> (20°C)
Solubility (in water)	poor
N-octanol/water division ratio	not applicable
Viscosity (rotation rheometer)	not applicable
Explosive properties	no data
Oxidizing properties	not applicable

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**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**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from source of ignition – No smoking. Keep out of the reach of children.

**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**

Acetone	LD <sub>50</sub> (rat, oral)	5800 mg/kg
	LD <sub>50</sub> (rabbit, skin)	20000 mg/kg
	LC <sub>50</sub> (rat, inhalation)	39 mg/ m <sup>3</sup> /4h
Butane	LC <sub>50</sub> (rat, inhalation)	>658000 mg/ m <sup>3</sup> /4h

**b) Skin corrosion/irritation**

Causes skin irritation.

**c) serious eye damage/irritation**

Causes serious eye irritation.

**d) respiratory or skin sensitisation**

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

**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.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Exposure methods:**

Inhalation: May cause irritation.

Skin: Causes skin irritation.

Eyes: Causes serious eye 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**

Acetone

Daphnia magna EC50 (48h) 8800 mg/l

Number in the catalogue of water hazardous substances: 6

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 leave to dry only in good ventilated rooms. The dried product is not harmful waste.

**CAUTION:** The remains should be dried in small portions. 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.

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**SECTION 14: TRANSPORT INFORMATION**

	ADR/RID	IMO/IMGD	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name		AEROSOLS, flammable	
14.3. Transport hazard class(es)	2	2	2
14.4. Packaging group	--	--	--
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 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:**

Flam. Gas. 1 Flammable gas. Category 1  
H220 Extremely flammable gas  
Press. Gas Pressurized gas  
H280 Contains gas under pressure; may explode if heated  
Flam. Liq.2 Flammable liquid. Category 2  
H225 Highly flammable liquid and vapour  
Skin Irrit. 2 Corrosive/irritating effect on skin. Category 2  
H315 Causes skin irritation  
Asp. Tox. 1 Aspiration toxicity. Category 1  
H304 May be fatal if swallowed and enters airways  
STOT SE 3 Specific target organ toxicity – single exposure, category 3  
H336 May cause drowsiness or dizziness  
Aquatic Chronic 2 Hazardous to the aquatic environment. 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. Classification was made by calculation method according to the classification rules contained in Regulation 1272/2008/WE.

**BITUMEN UNDERBODY COATING**

**SECTION 16: OTHER INFORMATION**

**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.

Issued by: NOVOL Sp. z o.o.

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