

**ANTIGRAVEL MS**

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

**1.1. Product identifier**

**ANTIGRAVEL MS**

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

Antigravel MS, spray version for professional use in car refinish.

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

**NOVOL Sp. z o.o.**  
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**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 sensitization, hazard category 1 (Skin Sens. 1). May cause skin sensitization.  
Eye irritant hazard category 2 (Eye Irrit. 2). Causes 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 3, Aquatic Chronic 3.  
Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.

**2.2. Label elements:**

Contains:

Ethyl acetate, propane, butane

Pictograms:



Signal word:

Danger

H222  
H229  
H317  
H319  
H336  
H412  
EUH066

Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
May cause skin sensitization.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Harmful to aquatic life with long lasting effects.  
Repeated exposure may cause skin dryness or cracking.

P102  
P210

Keep out of the reach of children.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211  
P251  
P260  
P273  
P280

Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Do not breathe vapours/spray.  
Avoid release to the environment.  
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.

**ANTIGRAVEL MS**

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

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

**Product identifier**

**ANTIGRAVEL MS**

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Propane	EC: 200-827-9 CAS: 74-98-6 Index no.: 601-003-00-5 Registration no.: 01-2119486944-21-XXXX	Classification 1272/2008/EC: Flam. Gas. 1; H220; Press. Gas.H280	12.5-20
Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.: 01-2119485493-29-XXXX	Classification 1272/2008/EC: Flam. Liq. 3; H226; STOT SE 3, H336 EUH066	12.5-20
Butane	EC: 203-448-7 CAS: 106-97-8 Index no.: 601-004-00-0 Registration no.: 01-2119474691-32-XXXX	Classification 1272/2008/EC: Flam. Gas. 1; H220; Press. Gas.H280	5-10
Butan-2-on	EC: 201-159-0 CAS: 78-93-3 Index no.: 606-002-00-3 Registration no.: 01-2119457290-43-XXXX	Classification 1272/2008/EC: Flam. Liq. 2; H225; Eye Irrit.2; H319; STOT SE 3, H336	5-10
Isobutane	EC: 200-857-2 CAS: 75-28-5 Index no.: 601-004-00-0 Registration no.: 01-2119485395-27-XXXX	Classification 1272/2008/EC: Flam. Gas. 1; H220; Press. Gas.H280	5-10
Ethyl acetate	EC: 205-500-4 CAS: 141-78-6 Index no.: 607-022-00-5 Registration no.: 01-2119457290-43-XXXX	Classification 1272/2008/EC: Flam. Liq. 2; H225; Eye Irrit.2; H319; STOT SE 3, H336	5-10
Hydrotreated light naphtha (petroleum), contains < 0.1% mol. of benzene CAS no.: 71-43-2)	EC: 921-024-6 CAS: 64742-49-0 Index no.: 649-328-00-1 Registration no.: 01-2119475133-43-xxxx	Classification 1272/2008/EC: Notes P, H Flam. Liq. 2 H225 Asp. Tox.1; H304 Aquatic Chronic 2; H411 Skin Irrit.2; H315 STOT SE 3, H336	2.5-5

**ANTIGRAVEL MS**

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

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Solvent naphtha (petroleum), light aromatic	EC: 265-199-0 CAS: 64742-95-6 Index no.: 649-356-00-4 Registration no.: 01- 2119455851-35-XXXX	Classification 1272/2008/EC: with consideration of Note H and P Benzene content by weight (EINECS no. 200-753-7) <0.1%: Flam. Liq. 3 H226 Asp. Tox.1; H304 Aquatic Chronic 2; H411 STOT SE 3; H335, H336	2.5-5
Rosin	EC: 232-475-7 CAS: 07/09/8050 Index no.: 650-015-00-7 Registration no.: 01- 2119480418-32-XXXX	Classification 1272/2008/EC: Skin Sens. 1; H317	2.5-5
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.: --	Classification 1272/2008/EC: Flam. Liq. 3; H226; Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit.2; H315	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.

**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 may cause drowsiness and dizziness. 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.

**ANTIGRAVEL MS**

**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.

**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 refinishing taking into consideration the information included in subsections 7.1 and 7.2.

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**8.1. Control parameters**

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>

Ethyl acetate CAS 141-78-6:

- TRGS 900: MAK: 400ppm, MAK: 1500 mg/m<sup>3</sup>, 2(II),DFG, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 200 ppm' -- mg/m<sup>3</sup>, STEL 400ppm, -- mg/m<sup>3</sup>

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

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>

**ANTIGRAVEL MS**

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

**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; butyl rubber, 0.5mm thick, penetration time >480min.)

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 the 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: 1.2 vol% upper: 10.9 vol%
Vapour pressure	3500 hPa (20°C)
Vapour density (with regard to air)	No data
Density	about 0.839 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

**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.

**ANTIGRAVEL MS**

**SECTION 10: STABILITY AND REACTIVITY**

**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 <sub>50</sub> (rat, oral)	14000 mg/kg
	LD <sub>50</sub> (rabbit, skin)	>17600 mg/kg
	LC <sub>50</sub> (rat, inhalation)	9660 mg/m <sup>3</sup> /8h
Butane	LC <sub>50</sub> (szczur, inhalacja)	658 mg/ m <sup>3</sup> /4h
Butanon	LD <sub>50</sub> (rat, oral)	2737 mg/kg
	LD <sub>50</sub> (rabbit, skin)	6480 mg/kg
	LC <sub>50</sub> (rat, inhalation)	34 mg/ m <sup>3</sup> /4h
Ethyl acetate	LD <sub>50</sub> (szczur, doustnie)	5620 mg/kg
	LD <sub>50</sub> (królik, skóra)	.18000 mg/kg
	LC <sub>50</sub> (szczur, inhalacja)	1600 mg/m <sup>3</sup>
Solvent naphtha	LD <sub>50</sub> (rat, oral)	3592 mg/kg (OECD401)
	LD <sub>50</sub> (rabbit, skin)	>3160 mg/kg (OECD402)
	LC <sub>50</sub> (rabbit, inhalation)	>15 mg/ m <sup>3</sup> /4h
Xylene	LD <sub>50</sub> (rat, oral)	5000 mg/kg
	LC <sub>50</sub> (rat, inhalation)	4550 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**

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

**e) Toxicity for repeated exposure**

Repeated exposure might cause skin dryness or rupture.

**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: May cause irritation.

Skin: May cause irritation. May cause sensitization by skin contact.

Eyes: Irritating to eyes.

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.

Fumes might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture.

**ANTIGRAVEL MS**

**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**

Ethyl acetate	Daphnia magna EC50 (24h) 2500 mg/l Number in the catalogue of water hazardous substances: 95 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
Solvent naphtha	Daphnia magna EC50 (24h) 150 mg/l Daphnia magna EC50 (48h) 7.4 mg/l

**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**

No available data.

**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.

**SECTION 14: TRANSPORT INFORMATION**

	ADR/RID	IMO/IMGD	IATA-DGR
<b>14.1. UN number</b>	1950	1950	1950
<b>14.2. UN proper shipping name</b>	AEROSOLS, flammable		
<b>14.3. Transport hazard class(es)</b>	2	2	2
<b>14.4. Packaging group</b>	--	--	--
<b>14.5. Environmental hazards</b>	--	--	--
<b>14.6. Special precautions for user</b>	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.		

**ANTIGRAVEL MS**

**SECTION 14: TRANSPORT INFORMATION**

- 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

**SECTION 16: OTHER INFORMATION**

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

Flam. Liq. 2/3 Flammable liquid. Category 2/3  
H225 Highly flammable liquid and vapour  
H226 Flammable liquid and vapour  
Eye Irrit. 2 Eye irritation. Category 2  
H319 Causes serious eye irritation  
STOT SE 3 Toxic effect on target organs – single exposure, Category 3  
H336 May cause drowsiness or dizziness  
Flam. Gas. 1 Flammable gas. Category 1  
H220 Extremely flammable gas  
Press. Gas Pressurized gas  
H280 Contains gas under pressure; may explode if heated  
EUH066 Repeated exposure may cause skin dryness or cracking  
Asp. Tox. 1 Aspiration toxicity. Category 1  
H304 May be fatal if swallowed and enters airways  
Skin. Sens. 1 Respiratory/skin sensitization.  
H317 May cause an allergic skin reaction  
Acute Tox. 4; Acute toxicity. Category 4  
H312 Harmful in contact with skin  
H332 Harmful if inhaled  
Skin Irrit. 2 Corrosive/irritating effect on skin. Category 2  
H315 Causes skin irritation  
Aquatic Chronic 2 Hazardous to the aquatic environment. Category 2  
H411 Toxic to aquatic life with long lasting effects  
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 contained herein is based on our current knowledge. This document shall not constitute a warranty of product characteristics.



**ANTIGRAVEL MS**

**SECTION 16: OTHER INFORMATION**

**Other sources of data:**

**ESIS** European Chemical Substances Information System

**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.