

ANTIGRAVEL HS

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

1.1. Product identifier

ANTIGRAVEL HS

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

Antigravel HS, 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

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

Classification 1999/45/EC:

The mixture was classified as dangerous pursuant to current regulations - see section 15. Harmful mixture. Harmful by inhalation and in contact with the skin. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Extremely flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements:

Contains:
Signs:

Dimethyl ether



Risk symbols:

F+ Extremely flammable

Risk index:

R12

R66

R67

Safety index:

S16

S23

S26

S36/37/39

S51

S60

Extremely flammable

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness

Keep away from sources of ignition- No smoking

Do not breathe vapour/spray.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

Use only in well-ventilated areas.

This material and its container must be disposed of as hazardous waste.

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.

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

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Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Dimethyl ether	WE: 204-065-8 CAS: 115-10-6 Index no.: 603-019-00-8 Registration no.:--	F+: R12  Classification 1272/2008/WE: Flam. Gas. 1; H220; Press. Gas.H280; Marking: GHS02, GHS04; Dgr; H220	25-50
Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.:--	Classification 67/548/EEC: R10, R66-67 Classification 1272/2008/EC: Flam. Liq. 3; H226; STOT SE 3; H336 Marking: GHS02 GHS07; Wng; H226, H336, EUH066	12,5-20
Acetone	WE: 200-662-2 CAS: 67-64-1 Index no.: 606-001-00-8 Registration no.:--	Classification 67/548/EWG: Xi; R36 F: R11 R66-67   Classification 1272/2008/WE: Flam. Liq. 2; H225; Eye Irrit.2; H319; STOT SE 3, H336 Marking: GHS02, GHS07; Dgr; H225, H319, H336, EUH066	10-12,5
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.:--	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 Marking: GHS02, GHS07; Wng; H226, H332, H312, H315	2,5-5
Ethyl acetate	WE: 205-500-4 CAS: 141-78-6 Index no.: 607-022-00-5 Registration no.:01-2119475110-46-XXXX	Classification 67/548/EWG: F; R11 Xi; R36 R66-67   Classification 1272/2008/WE: Flam. Liq. 2; H225; Eye Irrit. 2; H 319 STOT SE 3; H336 Marking: GHS02 GHS07; Dgr; H225, H319, H336, EUH066	1-2,5

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

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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.

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.

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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

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

Acetone CAS 67-64-1 according to:

- *TRGS 900:* MAK: 500ppm, MAK: 1200 mg/m³, 2(I), DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 500 ppm, 1210 mg/m³, STEL 1500ppm, 3620 mg/m³

Dimethyl ether CAS 115-10-6 according to:

- *TRGS 900:* MAK: 1000ppm, MAK: 1900 mg/m³, 8(II), DFG
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 400 ppm, 766 mg/m³, STEL 500ppm, 958 mg/m³

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

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

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid in aerosol
Colour	gray
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: 18.6 vol%
Vapour pressure	4000 hPa (20°C)
Vapour density (with regard to air)	No data
Density	about 0.977 g/cm ³ (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

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

Xylene	LD ₅₀ (rat, oral)	5000 mg/kg
	LC ₅₀ (rat, inhalation)	4550 ppm/4h
Acetone	LD ₅₀ (rat, oral)	5800 mg/kg
	LD ₅₀ (rabbit, skin)	20000 mg/kg
	LC ₅₀ (rat, inhalation)	39 mg/ m ³ /4h
Dimethyl ether	LC ₅₀ (rat, inhalation)	308 mg/ m ³ /4h
Solvent naphtha	LD ₅₀ (rat, oral)	3592 mg/kg (OECD401)
	LD ₅₀ (rabbit, skin)	>3160 mg/kg (OECD402)
	LC ₅₀ (rabbit, inhalation)	>15 mg/ m ³ /4h
Ethyl acetate	LD ₅₀ (rat, oral)	5620 mg/kg
	LD ₅₀ (rabbit, skin)	.18000 mg/kg
	LC ₅₀ (rat, inhalation)	1600 mg/m ³

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SECTION 11: TOXICOLOGICAL INFORMATION

a) Acute toxicity

Butyl acetate	LD ₅₀ (rat, oral)	10770 mg/kg
	LD ₅₀ (rabbit, skin)	>17600 mg/kg
	LC ₅₀ (rat, inhalation)	>21mg/m ³ /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) Cancerogenicity

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.

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. Fumes 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

Acetone	Daphnia magna EC50 (48h) 39 mg/l Number in the catalogue of water hazardous substances: 6 Water hazard class: 1
Dimethyl ether	Daphnia magna EC50 (48h) >4000 mg/l
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
Ethyl acetate	Daphnia magna /EC50 (24h) 2500 mg/l Number in the catalogue of water hazardous substances: 95 Water hazard class: 1
Butyl acetate	Daphnia magna (rozwielitka wielka)/EC50 (24godz.) 205 mg/l 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 very poorly soluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

No available data.

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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 1950	IMO/IMGD 1950	IATA-DGR 1950
14.1. UN number			
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	--	--	--
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

SECTION 16: OTHER INFORMATION

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

R10 Flammable
R11 Highly flammable.
R12 Extremely flammable.
R20/21 Harmful by inhalation and in contact with the skin
R36 Irritating to eyes.
R38 Irritating to skin.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
Flam. Liq.2 Flammable liquid, category.2
H225 Highly flammable liquid and vapour.
Eye Irrit.2 Eye irritation, category 2.
H319 Causes serious eye irritation.
Acute Tox. 4. Acute toxicity, category 4
H332 Harmful if inhaled.

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SECTION 16: OTHER INFORMATION

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

H312 Harmful in contact with skin.
Skin Irrit. 2 Caustic/irritating effect on skin, category 2
H315 Causes skin irritation.
Flam.Liq.3 Liquid, flammable substances, category 3
H226 Flammable liquid and vapour.
STOT SE 3 Toxic effect on target organs – single exposure, category 3
H336 Might cause drowsiness or or dizziness.
Muta. Category 1B H340 May cause genetic defects
Flam. Gas. 1 H220 Extremely flammable gas.
Press. Gas H280 Contains gas under pressure; may explode if heated.
EUH066 Repeated exposure might cause skin dryness or rupture.

Explanation of the abbreviations and acronyms used in the Safety Data Sheet

GHS02 – "flame" pictogram code
GHS04 – "gas cylinder" pictogram code
GHS07 - pictogram code
GHS08 – „health risk” pictogram code
Wng – "caution" warning notice codes
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 of the mixture results from the application of the classification rules contained in Directive 1999/45/EC.

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.