GRAVIT 600 ANTIGRAVEL MS

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

1.1. Product identifier
GRAVIT 600 ANTIGRAVEL MS

1.2. Relevant identified uses of the substance or mixture and uses advised against
Antigravel MS -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: 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.
Sensitisation — Skin, category 1 (Skin Sens. 1). May cause an allergic skin reaction.
Reproductive Toxicity, category 2 (Repr. 2). Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity — Repeated exposure, Hazard Category 2 (STOT RE 2). May cause damage to organs through prolonged or repeated exposure.
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 3 (Aquatic Chronic 3). Harmful to aquatic life with long lasting effects.
Liquid, flammable substances, category 2 (Flam. Liq. 2). Highly flammable liquid and vapour.

2.2. Label elements:
Contains: Toluene

Pictograms:

Signal word: Danger

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a doctor if you feel unwell.

2.3. Other hazards
No available data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable.
3.2. Mixtures

Product identification GRAVIT 600 ANTIGRAVEL MS

Substance name	Identification numbers	Classification and marking	Concentration [wt%]
Butyl acetate	EC: 204-658-1 CAS: 123-86-4 Index no.: 607-025-00-1 Registration no.: 01-2119485493-29-XXXX	Flam. Liq. 3; H226; STOT SE 3; H336 EUH066	5-15
Naphtha (petroleum), hydrotreated light; contains less than 0,1 % w/w benzene (EINECS nr 200-753-7)	WE: 265-151-9 CAS: 64742-49-0 Index no.: 649-328-00-1 Registration no: 01-2119475133-43-XXXX	Flam. Liq. 2; H225; Asp. Tox. 1; H304 Skin Irrit.2; H315 Repr. 2; H361fd STOT SE 3; H336 STOT RE 2 H373 Aquatic Chronic 2; H411	8-18
Toluene	WE: 203-625-9 CAS: 108-88-3 Index no.:: 601-021-00-3 Registration no: 01-2119471310-51-XXXX	Repr. 2; H361d Asp. Tox. 1 STOT RE 2; H304; H373 Skin Irrit. 2; H315 STOT SE 3; H336	5-9
Rosin; colophony	WE: 232-475-7 CAS: 8050-09-7 Index no.: 650-015-00-7 Registration no: 01-2119480418-32-XXXX	Skin Sens. 1; H317	1-5
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.: 01-2119488216-32-XXXX	Flam. Liq. 3; H226; Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit.2; H315	3-6

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
Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause sensitization by skin contact.

SECTION 4: FIRST AID MEASURES

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
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)
One-component product 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
Xylene CAS 1330-20-7 according to:

- *TRGS 900:* MAK: 100ppm, MAK: 440 mg/m^3, 2(II),DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m^3, 220mg/m^3, STEL 100ppm, 441 mg/m^3, Sk, BMGV

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Ethyl acetate CAS 141-78-6:

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

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^3, STEL 200ppm, 966 mg/m^3

Toluene CAS 108-88-3 according to:

- *TRGS 900:* MAK: 50ppm, MAK: 190 mg/m^3, 4(II),DFG, H, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 191 mg/m^3, STEL 100ppm, 384 mg/m^3, 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, nitryl 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 the specyfication
Odour	strong, powerful
Odour threshold	0.9-9 mg/m^3 (Xylene)
pH	not applicable
Melting/freezing point	-72°C
Boiling point	Approx. 60 -110℃
Flash point	3℃
Autoignition point	about 300℃
Breakdown point	not specified
Evaporation rate	not specified
Flammability (solid, gas)	not applicable
Explosion limits	% bottom: 1.2 vol% top: 7.0 vol% (Toluene)
Vapour pressure	3,089 kPa (21,1℃) (Toluene)
Vapour density (with regard to air)	4.0 (Butyl acetate)
Density	about 1.16 g/cm3 (20℃)
Solubility (in water)	poor
N-octanol/water division ratio	2.65 (Toluene)
Kinematic viscosity	1100 mm^2/s (40℃)
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
Highly 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
Toluene	LD_{50} (rat, oral)	5000 mg/kg
	LC_{50} (rat, inhalation)	15320 mg/m^3 /4h

b) skin corrosion/irritation
Causes skin irritation.

c) serious eye damage/irritation
Causes serious eye irritation.

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
Suspected of damaging fertility. Suspected of damaging the unborn child.

h) STOT-single exposure
May cause drowsiness or dizziness.

i) STOT- repeated exposure
May cause damage to organs through prolonged or repeated exposure.

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Exposure methods:
Inhalation: Harmful: may cause lung damage if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Skin: Irritating to skin. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking.
Eyes: May cause 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. 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

Butyl acetate	Number in the catalogue of water hazardous substances: 42 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
Toluene	Daphnia magna /EC50 (48h) 11 mg/l Acute toxicity for fish LC50 13mg/l/9h Number in the catalogue of water hazardous substances: 194 Water hazard class: 2

12.2. Persistence and degradability
Butyl acetate — Biodegradability: 98% (closed bottle test)

12.3. Bioaccumulative potential
Butyl acetate — Biodegradation coefficient: BCF=3.1

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
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
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**	II	II	II
14.5.	**Environmental hazards**	none	none	none

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.Liq.2/3 Liquid, flammable substances, category 2/3
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
Asp. Tox. 1 Aspiration hazard, Hazard Category 1
H304 May be fatal if swallowed and enters airways.
STOT RE 2 Specific target organ toxicity — Repeated exposure, Hazard Category 2
H373 May cause damage to organs through prolonged or repeated exposure.
Repr. 2 Reproductive Toxicity, category 2
H361d Suspected of damaging the unborn child.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
STOT SE 3 Specific target organ toxicity– single exposure, category 3
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
Acute Tox. 4. Acute toxicity, category 4
H332 Harmful effect as a result of inhalation
H312 Harmful in contact with skin.
Skin Irrit. 2 Caustic/irritating effect on skin, category 2
H315 Causes skin irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.
Skin Sens. 1 Skin sensation, category 1.
H317 May cause an allergic skin reaction.
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 cont.
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

SECTION 16: OTHER INFORMATION

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 contained herein is based on our current knowledge. This document shall not constitute a warranty of product characteristics.
Classification was made by calculation method according to the classification rules contained in Regulation 1272/2008/WE.

Other sources of data:
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.