

PLAST 705 ADHESION INCREASING AGENT

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

1.1. Product identifier

PLAST 705 ADHESION INCREASING AGENT

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

Adhesion increasing agent, aerosol product. For professional use in car refinsh.

1.3. Details of the supplier of the Safety Data Sheet

NOVOL Sp. z o.o.
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Person responsible for the Safety Data Sheet dokumentacja@novol.pl

1.4. Emergency telephone number +48 61 810-99-09 (from 7 a.m. to 3 p.m.)

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).
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:

Hydrotreated light naphtha (petroleum), dimethyl ether

Pictograms:



Signal word:

Danger

H222
H229
H315
H336
H411

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

P102
P210

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

P211
P251
P260
P273
P280
P410+P412

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.
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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Substance name	Identification numbers	Classification and marking	Concentration [wt%]
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.: 01-2119475514-35-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	50-75
Dimethyl ether	EC: 204-065-8 CAS: 115-10-6 Index no.: 603-019-00-8 Registration no.: 01-2119472128-37-xxxx	Classification 1272/2008/EC: Flam. Gas. 1; H220; Flam. Liq. 1; H224 Press. Gas.H280	25-50
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index no.: 601-022-00-9 Registration no.: 01-2119488216-32-XXXX	Classification 1272/2008/EC: Flam. Liq. 3; H226; Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit.2; H315	5-10

The full text of the the hazard statements (H) is provided in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General notes: See Section 11 of the Safety Data Sheet.

Inhalation:

Take the victim outside into fresh air, ensure calm surroundings; in the case of respiratory arrest, administer artificial ventilation. **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.

Ingestion:

Do not induce vomiting (aspiration risk). Rinse mouth with water. If conscious, give 1-2 glasses of warm water to drink. Call a doctor.

The first aiders should wear medical gloves.

4.2. Most important symptoms and effects, both acute and delayed

Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

4.3. Indications of any immediate medical attention and special treatment needed

Special measures allowing for specialist and immediate aid should be available at the work place.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Powder, alcohol-resistant foam, 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 non-emergency personnel:

Eliminate the sources of ignition. Ensure adequate ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protective equipment: see Section 8 of the Safety Data Sheet.

For emergency responders:

The emergency responders shall wear protective clothing made of coated impregnated fabric, protective gloves (Viton), fully sealing safety goggles and breathing apparatus: gas masks with a Type A absorber.

6.2. Environmental precautions

Do not allow entry to sewage systems, surface waters, ground waters and soil.

6.3. Methods and materials for containment and cleaning up

Stop the spill (isolate the liquid inflow and seal), place damaged containers in emergency containers, remove the liquid mechanically and place it in an emergency container. In case of a large spill, embank the area. In case of small spills, collect with a binding agent (e.g. mica, diatomaceous earth or sand).

6.4. Reference to other sections

Personal protective equipment: see Section 8 of the Safety Data Sheet.

Disposal considerations: see Section 13 of the Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Pressurized container. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – do not smoke when spraying. Do not allow entry to sewage systems, surface waters, ground waters and soil. Use in well ventilated rooms. Do not inhale vapours. Avoid contact with skin and eyes. Take precautions against electrostatic discharge. Use personal protective equipment: see 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. Keep away from sources of ignition – No smoking. Keep out of reach of children. Do not store near large amounts of organic peroxides and other strong oxidants. Take precautions against electrostatic discharge. Store in cool, well ventilated rooms.

7.3. Specific end use(s)

For professional use in car refinish, with consideration of the information included in Subsections 7.1 and 7.2.

SECTION 8: EXPOSURE CONTROLS/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

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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2. Exposure controls

Respiratory protection:

Gas mask with Type A absorber (EN 141).

Hand protection:

Protective gloves PN-EN 374-3 (Viton, 0.7 mm thick, penetration time > 480 min)

Eye protection:

Fully sealing safety goggles.

Skin protection:

Suitable protective clothing (coated impregnated fabrics).

Workplace:

Local exhaust ventilation and general ventilation.

Environmental exposure controls:

Do not allow entry to sewage systems, surface waters, ground waters and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	pressurized liquid (aerosol)
Colour	as specified
Odour	pungent, 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
Decomposition temperature	no data
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Explosion limits	% lower: 0.6 vol% upper: 26.2 vol%
Vapour pressure	4000 hPa (20°C)
Vapour density (air = 1)	no data
Density	ca. 0.707 g/cm ³ (20°C)
Solubility (in water)	poor
Partition coefficient (n-octanol/water)	no data
Viscosity	no data
Explosive properties	no data
Oxidizing properties	not applicable

9.2. Other information

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 avoid

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 sources of ignition – No smoking. Keep out of 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.

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SECTION 10: STABILITY AND REACTIVITY

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. The evaluation was performed based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Hydrotreated light naphtha (petroleum)	LD ₅₀ (rat, oral)	>5840 mg/kg
	LD ₅₀ (rabbit, skin)	>2920 mg/kg
	LC ₅₀ (rat, inhalation)	>193 mg/m ³ /4h
Dimethyl ether	LC ₅₀ (rat, inhalation)	308 mg/m ³ /4h
Xylene	LD ₅₀ (rat, oral)	4300 mg/kg
	LC ₅₀ (rabbit, skin)	2000 mg/kg
	LC ₅₀ (rat, inhalation)	22.1 mg/m ³ /4h

b) Skin corrosion/irritation

Causes skin irritation.

c) serious eye damage/irritation

No available data confirming the hazard class.

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.

Exposure routes:

Inhalation: Potential irritation.

Skin: Irritating in contact with skin.

Eyes: Potential irritation.

If swallowed, the substance may cause irritation of the digestive tract, nausea, vomiting and diarrhoea.

Poisoning symptoms:

Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in extreme cases, loss of consciousness.

Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data available on the preparation. The evaluation was performed based on the data on hazardous ingredients included in the preparation.

12.1. Toxicity

Hydrotreated light naphtha (petroleum) Daphnia magna EC50 (48h) 3 mg/l

Dimethyl ether Daphnia magna EC50 (48h) >4000 mg/l

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Xylene
 Daphnia magna EC50 (48h) 7.4 mg/l
 Evaluation indicator of acute toxicity to mammals: 3; to fish: 4.1
 Number in the catalogue of water hazardous substances: 206
 Water hazard class: 2

12.2. Persistence and degradability

No available data.

12.3. Bioaccumulative potential

No available data.

12.4. Mobility in soil

The product is very poorly soluble in water.

12.5. Results of PBT and vPvB assessment

No available data.

12.6. Other adverse effects

Dangerous for the environment. Toxic 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 suitable local and statutory regulations with regard to waste - see Section 15.

Dispose of at a facility authorised by a relevant authority to collect, reclaim or neutralise waste.

Product residues:

Waste Code: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances. Do not dispose the product into sewage systems. Do not collect with communal waste. Empty the container of the product remains until completely depressurized and leave the product to dry freely (in well ventilated rooms only). The dry product is not hazardous waste.

CAUTION: Dry the residues in small portions, away from flammable products. The chemical reaction generates large amounts of heat!

Contaminated containers:

Do not pierce or burn the packaging, even after use. A packaging containing unhardened product residues is hazardous waste. Waste Code: 15 01 11* Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers. Do not collect with communal waste. Return the packaging to the manufacturer. If this is not possible: Dispose of the packaging at a facility authorised by a relevant authority to collect, reclaim or neutralise waste.

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. Packing group	---	---	---
14.5. Environmental hazards	yes	---	---
14.6. Special precautions for user	Do not use open flames and do not smoke. Protect from sunlight and do not expose to temperatures exceeding 50°C. 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 open flames and do not smoke.		
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code"	Not applicable.		

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ECTION 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 Flammable liquid. Category 2/3

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

Flam. Gas. 1 Flammable gas. Category 1

H220 Extremely flammable gas

Flammable liquid, hazard Category 1

H225 Extremely flammable liquid and vapour

Press. Gas Pressurized gas

H280 Contains gas under pressure; may explode if heated

Acute Tox. 4. Acute toxicity. Category 4

H332 Harmful if inhaled

H312 Harmful in contact with skin

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

Aquatic Chronic 2 Hazardous to the aquatic environment. Category 2

H411 Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

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 **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 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.

Other sources of information

ECHA European Chemicals Agency

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.