

SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1. Identification of the preparation:** ADHESION INCREASING AGENT PLAST 705**1.2. Use of the preparation:** ADHESION INCREASING AGENT PLAST 705 is increasing adhesion of polyurethane and acrylic products to various surfaces.**1.3. Company/undertaking identification:** NOVOL Sp. z o.o. Tel: +48 61 810-98-00
ul. Żabikowska 7/9 Fax: +48 61 810-98-09
62-052 Komorniki www.novol.pl
Emergency tel: (061) 810-98-00**2. HAZARD IDENTIFICATION****HEALTH HAZARDS:** Harmful product. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to skin. Repr.Cat.3: Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.**DANGEROUS PROPERTIES:** Highly flammable liquid; avoid contact with strong oxidants.**OTHER:** No data available.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

EEC No.	Name of the substance	WE No.	CAS No.	Classification of the substance	Marking of the substance	Composition
601-021-00-3	Toluene	203-625-9	108-88-3	F; R11 Xn; R48/20,R65 Xi; R38, R67 Repr.kat.3 R63	F; Xn R 11-48/20-38-63-67 S: 36/37-46-62	80-90%
601-022-00-9	Xylene	215-535-7	1330-20-7	R10 Xn, R20/21 Xi, R38	Xn R: 10-20/21-38 S: (2-)25	5-10%
601-023-00-4	Ethylbenzen	202-849-4	100-41-4	F; R11 Xn; R20	F; Xn R: 11-20 S: (2-)16-24/25-29	1-5%

4. FIRST AID MEASURES**GENERAL INFORMATION:** See 11 point Product Data Sheet.**INHALATION:** Take the casualty into the fresh air and keep warm irregular breathing/no breathing artificial respiration call a physician.**SKIN:** Take off soiled clothes. Wash off with plenty of lukewarm water (at least 15 minutes). Consult a doctor in the event of skin reaction.**EYES:** Hold the eyes open and rinse immediately with plenty of lukewarm water (at least 15 minutes). Contact with ophthalmologist.**ALIMENTARY TRACT:** Do not provoke vomiting (risk of choking). Rinse mouth with water. Give 150ml liquid paraffin if it's possible. Medical help is required.**5. FIRE-FIGHTING MEASURES****FIRE EXTINGUISHING****SUBSTANCES:** Powder, foam resistant to alcohols, carbon dioxide, watermist.**SPECIAL HAZARDS:** Vapours are most heavy than air. They gather under the floor and may create all air explosive mixtures. Fire may cause the generation of carbon monoxide and other toxic gases.**PROTECTIVE EQUIPMENT:** Firemen have to wear self-contained breathing apparatus and protective clothing.**OTHER INFORMATION:** Cool adjacent tanks by spraying water from a safe distance.**6. ACCIDENTAL RELEASE MEASURES****PERSONAL PROTECTION:** Eliminate sources of ignition. Ensure sufficient ventilation in this room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Put on protective equipment see chapter 8.**PROTECTION OF THE ENVIRONMENT:** Prevent to get through to the sewage system, to the surface water, underground water, to the soil. In case of a major spillage the affected area should be separated with bounds.**ACTION IN CASE OF SPILLAGE:** Seal the container; damaged containers should be placed in emergency containers. Besprinkle spillage, use e.g. mica, sand, wood flour. Remove the substance mechanically and put to emergency containers. For further disposal measures: see chapter 13.

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7. HANDLING AND STORAGE

HANDLING RULES:

Keep away from heat and sources of fire. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precautionary measures against electrostatic loading. Use only in well ventilated place. Put on protective equipment-see chapter 8.

STORAGE:

Keep in sealed containers in cool, well ventilated rooms. Storage in the vicinity of a large quantity of organic peroxides or strong oxidants is prohibited.

PECULIAR APPLICATION: See the technical product data sheet..

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

LIMIT VALUES:

for 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

for Toluene CAS 108-88-3 according to:

- *TRGS 900:* MAK: 50ppm, MAK: 190 mg/m³, 4(II),DFG, H, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 191 mg/m³, STEL 100ppm, 384 mg/m³, Sk

for Ethylbenzen CAS 100-41-4 according to:

- *TRGS 900:* MAK: 100ppm, MAK: 440 mg/m³, 2(I),EU, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 100 ppm, 441mg/m³, STEL 125ppm, 552 mg/m³, Sk

RESPIRATORY TRACT PROTECTION:

Gas mask with "A" type absorbing canister.

PROTECTION OF HANDS:

Protective gloves suitable for handling solvents (viton, nitrile rubber).

EYES PROTECTION:

Protective glasses.

SKIN PROTECTION:

Suitable protective clothing (antistatic, impregnated clothing).

WORKPLACE:

Topical stays and exhausting ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Colour:	straw-coloured
Smell:	pungent, penetrating odour
Boiling point:	110-142°C
Flash-point:	8°C
Autoignition point:	approx. 460°C
Explosion limits:	% lower: 1.0 vol.% upper: 7.6 vol.%
Vapour pressure:	8.2 hPa (20°C)
Density:	approx. 0.9 g/cm ³ (20°C)
Water solubility:	insoluble
Partition coefficient n-octanol/water:	--
Viscosity (4mm):	10s

10. STABILITY AND REACTIVITY

STABILITY:

The product remains stable under normal conditions.

AVOID THE CONTACT OF THE MATERIAL WITH:

Strong oxidants, high temperature, strong acids and basis.

DANGEROUS DECOMPOSITION PRODUCTS:

Carbon monoxide and other toxic gasses are generated as a result of thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Toxicological studies at the preparation are not available.

TOXICITY:	Xylene	LD ₅₀ (rat, oral)	5000 mg/kg
		LC ₅₀ (rat, inhalation)	4550 ppm/4h
	Toluene:	LD ₅₀ (rat, oral)	5000 mg/kg
		LC ₅₀ (rat, inhalation)	15320 mg/m ³ /4h

IRRITATING EFFECT:

Skin: irritating to skin and mucous membranes.
Eyes: irritating effect.

SYMPTOMS OF POISONING:

Headache and vertigo, fatigue, decreased muscle power, sleepiness and, in exceptional instances, loss of consciousness. If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting, and diarrhoea.

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12. ECOLOGICAL INFORMATION

Ecological studies at the preparation are not available.

Toluene: Daphnia magna/EC50 (48h.) 11mg/l
 LC50 Fish 13 mg/l/96h
 Number in catalogue includes substance danger to water : 194
 Water hazard class : 2

Xylene: Daphnia magna/EC50 (48h.) > 7,4 mg/l
 ID-Number: 206
 Classification under Hazard to Water: 2

The product is insoluble in water. Keep away from the sewage system, surface water, underground water, and soil.

13. DISPOSAL CONSIDERATIONS

RECOMMENDATION: Product must be disposed of by special means in accordance with local regulations.

REMAINS OF PRODUCT: Remains of product in the tin should be carefully remove and leave to dry
code of waste: 08 01 11 Dried product is not harmfully substance and could be treat like plastics wastes (in accordance with the regulations).

ATTENTION: Remains should be harden in small portions far from flammable substances. Much amount of heat is emitting in the time of reaction!

CLEAN TIN: Tin carefully clean is not harmful waste.

code of waste: 15 01 04

TIN PARTLY EMPTY: See remains of product.

14. TRANSPORT INFORMATION

GENERAL INFORMATION: Do not transport with materials class 1 (with the exception of materials class 1.4S) and with some of materials class 4.1 and 5.2. Avoid direct contact with materials class 5.1 and 5.2 in the time of transport. Do not use naked flame and do not smoke.

ADR/RID: UN 1993 FLAMMABLE LIQUID, N.O.S. (toluene), 3, II

UN No.	Name of the raw material	Hazard identification number	Warning label required	Classification Code	Packaging group
1993	FLAMMABLE LIQUID, N.O.S (toluene)	33	3	F1	II

IMDG- Code: FLAMMABLE LIQUID, N.O.S (toluene), CLASS 3, UN 1993, PG II.

EmS: F-E, S-E

ICAO/IATA: No data available.

15. REGULATORY INFORMATION

Safety data sheet in accordance with Directives:

67/548/EWG(2006/121/WE)

91/155/EWG (2001/58/WE)

1999/45/EC (2006/8/WE)

2006/1907/WE REACH

Other regulations: ADR (2007-2009) , IMDG Code 2006 Edition

CONTAINS: Toluene, Xylene



HAZARD SYMBOL(S) Xn Harmful
 F Highly flammable

RISK-PHRASES: R11 Highly flammable.
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 R38 Irritating to skin.
 R63 Possible risk of harm to the unborn child.
 R65 Harmful: may cause lung damage if swallowed.

SAFETY-PHRASES: S (2-) Keep out of the reach of children.
 S 16 Keep away from sources of ignition- No smoking
 S 23 Do not breathe vapour/spray.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S 38 In case of insufficient ventilation, wear suitable respiratory equipment.
 S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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16. OTHER INFORMATION

Full text of the R Phrases from section 2 and 3:

R11 Highly flammable

R20/21 Harmful by inhalation. And in contact with skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R38 Irritating to skin

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness.

Information contained herein is based on our current knowledge. This document does not constitute a warranty for product characteristics.

Issued by: NOVOL Sp. z o.o.

Information: Laboratory Research and Development; tel. +48 61 810 99 09