SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification
ELASTICITY INCREASING AGENT

1.2. Relevant identified uses of the substance or mixture and uses advised against
For professional use in car refinish.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.
Ul. Łódzka 3
42-240 Rudniki, PL
Phone: +48 34 329 45 03
Fax: + 48 34 320 12 16
Registration number: 000029202

Person responsible for the safety data sheet:
ranal@ranal.pl

1.4. Emergency telephone
+48 34 329 45 03 (8.00am - 03.00pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
The mixture was classified as dangerous according to current regulations – see section 15.

Classification 1272/2008/EC:
Acute toxicity (after application in skin) and acute toxicity (after inhalation), hazard category 4 (Acute Tox. 4). Harmful in contact with skin or if inhaled. Causes skin irritation, hazard category 2 (Skin Irrit. 2). Causes skin irritation. Flammable liquids, hazard category 3 (Flam. Liq. 3). Flammable liquid and vapour.

2.2. Label elements

Contains:
Xylene.

Pictograms:

Warning word: **Warning**.

Risk index:

H226	Flammable liquid and vapour.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.

Safety index:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing 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 data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances
Not applicable.

3.2. Mixtures

Product identification
ELASTICITY INCREASING AGENT

Substance name
Concentration [% weight]
Identification numbers
Classification and labelling

Xylene
45-65%
EC: 215-535-7
CAS: 1330-20-7
Index No: 601-022-00-9
Registration No: 01-2119539452-40-XXXX
Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315.

Full text of the phrases identifying the types of hazard provided in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:
See section 11 of the Material Safety Data Sheet.

Respiratory system:
Take the victim outside to the fresh air, ensure quiet surrounding, and in case of no breath ensure artificial respiration. **Call a doctor.**

Skin:
Take off contaminated clothing. Rinse contaminated skin with plenty of lukewarm water for about 15 min. If irritation persists consult a doctor.

Eyes:
Rinse immediately with plenty of water for about 15 min, avoid strong water jet- risk of comea damage, consult a doctor.

Alimentary tract:
Do not cause 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 both acute and delayed
Vapours may cause irritation of eyes, nose and throat. 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 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
Carbon monoxide may be generated in case of fire.

5.3. Advice for firefighters
Fire-fighting teams should wear self-contained breathing apparatus and light protective clothing. Cool adjacent tanks by spraying water from a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

For persons not being members of aid giving staff:
Remove ignition sources. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal safety measures – see section 8 of Material Safety Data Sheet.

For persons being the members of aid giving staff:
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 Material Safety Data Sheet.
Disposal considerations – see section 13 of the Material Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling
Keep away from heat and sources of ignition. Prevent leakage to the sewage system, surface waters, underground waters and soil. Use only in well ventilated rooms. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precaution measures against electrostatic discharge. Use personal protection measures – see section 8 of the Material Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities
Store in well sealed original containers. Do not store near large amounts of organic peroxides or other strong oxidants. Take precaution measures against electrostatic discharge. Store in cool, well ventilated rooms.
Protect from low temperatures, the sunrays and heat sources.

7.3. Special end use (s)
Plasticizer for acrylic and polyurethane products used in car refinish. For professional use in car body refinish taking into consideration the information included in subsections 7.1 and 7.2.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES

8.1. Control parameters

CAS NUMBER	1330-20-7
SUBSTANCE	xylene
MPC (mg/m^3)	100
MPIC (mg/m^3)	---
MPCC (mg/m^3)	---

National acceptable biological values:

CAS NUMBER	1330-20-7
SUBSTANCE ABSORBED	xylene
SUBSTANCE MARKED	methyl hippuric acid
BIOLOGICAL MATERIAL	urine*
PCB VALUES	0.75 g/g creatinine

Notice: * single sample, taken at the end of a daily exposure any day.

PN-EN 482: 2012	Occupational exposure – General requirements for the characteristics of procedures of measurements of chemical factors.
PN-EN-689: 2002	Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values.
PN Z-04008-7:2002	Protection of air cleanliness. Sampling. Principles of air sampling in the work environment and interpretation of results
PN-78/Z-04116.01	Protection of air cleanliness – Control of xylene content – Marking xylene at workplaces by the method of gas chromatography with sample enrichment.

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.).

Eyes 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	clear
Odour	strong, powerful
Odour threshold	0.9-9 mg/m^3 (xylene)
Melting/freezing point	-25°C
Boiling point	about 140°C
Flash point	24°C
Autoignition point	about 400°C
Breakdown point	not specified
Evaporation rate	not specified
Flammability (solid, gas)	not applicable
Explosion limits	% bottom: 1.1 vol%, top: 8.0 vol% (xylene)
Vapour pressure	9 hPa (20°C) (xylene)
Vapour density (with regard to air)	3.66 (xylene)
Density	no data
Solubility (in water)	poor
n-octanol/water partition coefficient	3.12-3.2 (xylene)
Viscosity ISO 2431 (4 mm)	no data
Explosive properties	not applicable
Oxidizing properties	not applicable

9.2. Other information
No data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Product not reactive under normal conditions.

10.2. Chemical stability
Product stabile under normal conditions.

10.3. Possibility of hazardous reactions
Carbon monoxide and other toxic gases may be generated as a result of thermal decomposition.

10.4. Conditions to be avoided
Flammable product. Avoid contact with strong oxidants, 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 based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity

Xylene

LD50 (rat, ingestion)	4300 mg/kg
LC50 (rat, inhalation)	5000 ppm/4h
LD50 (rabbit, skin)	1700 mg/kg

b) Caustic/irritating effect on skin
Causes skin irritation.

c) Serious eye damage / eye irritation
No available data confirming the hazard class.

d) Allergic effects on skin or respiratory tract
The mixture is not classified as allergenic. No available data confirming the hazard class.

e) Mutagenic effect on germ cells
The mixture is not classified as mutagenic. No available data confirming the hazard class.

f) Carcinogenicity
The mixture is not classified as carcinogenic. No available data confirming the hazard class.

g) Harmful effect on reproduction
The mixture is not classified as harmful to reproduction. No available data confirming the hazard class.

h) Toxic effect on target organs – single exposure
No available data confirming the hazard class.

i) Toxic effect on target organs – repeated exposure
No available data confirming the hazard class.

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

Exposure methods:
Respiratory system: Harmful if inhaled.
Skin: Harmful in contact with skin.
Eyes: Irritating effect.
Alimentary tract: If swallowed the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhea.

Poisoning symptoms:
Headaches and dizziness, fatigue, decreased muscle power, drowsiness and in exceptional instances loss of consciousness.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data available on the preparation. Evaluation based on the data on dangerous ingredients included in the preparation.

12.1. Toxicity

Xylene

Daphnia magna EC50 (48 h):	7.4 mg/l
Acute toxicity for mammals:	3; for fish: 4.1
Number in catalogue of water hazardous substances:	206
Water hazard class:	2

12.2. Persistence and degradability
No data.

12.3. Bioaccumulative potential

Xylene
Biodegradation coefficient: BCF <100

12.4. Mobility in soil
Very poorly soluble in water.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other hazardous effects
No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product must be disposed of in compliance with the proper local and statutory regulations with regard to waste – see section 15. Forward to entities that have been authorized to collect, recover or dispose of waste.

Product remains:
Waste code: 08 01 11*
Waste paints and varnishes containing organic solvents or other dangerous substances. Do not dispose the product into the sewage system. Do not store with communal waste. Remove the remains of the product from the container and let it dry completely (only in well ventilated rooms).
CAUTION: Let the remains dry only in well ventilated rooms away from flammable products.

Contaminated container:
A contaminated container containing unhardened remains of the product is harmful waste.
Waste code: 15 01 10*.
Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic and toxic). Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover o disposal.

SECTION 14: TRANSPORT INFORMATION

ADR/RID
IMO/IMGD
IATA-DGR

14.1. UN number
1866
1866
1866

14.2. UN proper shipping name
RESIN IN SOLUTION, flammable

14.3. Transport hazard class (es)
3
3
3

14.4. Packaging group
III
III
III

+14.5. Environmental hazards
No.
No.
No.

14.6. Special precautions for user
Do not transport together with products of class 1 (except products of class 1.4S), and some products of class 4.1 and 5.2. During the transport avoid direct contact with products of class 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 / legislations specific for the substance or mixture
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Official Journal of EU L 136 of May 29 2007.
- Official Journal of EU L 304 of November 22 2007, Official Journal of EU L268 of October 09 2008, Official Journal of EU L 46 of February 17 2009, Official Journal of EU L164 of June 26 2009, Official Journal of EU L133/1 of May 31 2010 with later amendments.
- Commission Regulation (EU) No 453/2010 of May 20 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of EU L 353 of December 31 2008), Official Journal of the EU L 235 of September 5 2009, Official Journal of the EU L 83 of March 30 2011, Official Journal of the EU L 179 of July 11 2012.

15.2. Chemical safety assessment
Not performed.

SECTION 16: OTHER INFORMATION

16.1 Full text of the phrases identifying the types of hazards mentioned in sections 2-15:

Flam. Liq. 3	Flammable liquids, category, cat. 3.
H226	Flammable liquid and vapours.
Acute Tox. 4	Acute toxicity, cat. 4.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
Skin Irrit. 2	Caustic /irritating effect on skin, cat. 2.
H315	Causes skin irritation, cat. 2.

Explanations of the abbreviations and acronyms used in the Material Safety Data Sheet:

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 (EINECS), or number in the list the chemical substances mentioned in the publication "No-longer polymers".
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 Concerning International Carriage of Dangerous Goods by Road.
IMO	International Maritime Organization.
RID	Regulation for International Rail Transport of Dangerous Goods.
IMDG-Code	International Maritime Dangerous Goods Code.
ICAO /IATA	Technical Instructions for Safe Air Transport of Dangerous Goods.

Classification based on calculation method according to classification rules included in Regulation 1272/2008/EC.

Other data sources:
ECHA European Chemicals Agency
TOXNET Toxicology Data Network

Changes in the Sheet compared to the previous version:
1.3, general update.

Number of the Sheet: 060P1L2018V2