

**ELASTICITY INCREASING AGENT**

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

**1.1. Product identification**

**ELASTICITY INCREASING AGENT**  
**UFI: F4A0-PODQ-600R-VGH4**

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

Tel.: + 48 34 329 45 03  
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Registration number 000029202

**1.4. Emergency telephone**

+48 34 329 45 03 (8.00 - 15.00)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

The mixture was classified as hazardous according to the regulations in force - see section 15 of the Safety Data Sheet.

Classification 1272/2008/EC\*:

Flammable liquids, category 3, H226

Acute toxicity - (skin), Category 4, H312

Acute toxicity (after inhalation: dust/mist), category 4, H332

Skin corrosion/irritation, category 2, H315

Full text of H and EUH phrases: see section 16.

Adverse effects related to physicochemical properties, effects on human health and the environment\*: No further data available.

**2.2. Label elements**

Contains: Xylene

Pictograms:



GHS02\* GHS07\*

Signal word: **Warning**.

Hazard statements (CLP):

H226 Flammable liquid and vapour.

H312+ H332 Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

Precautionary statements (CLP):

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

P261 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 POISON CENTER or doctor/physician if you feel unwell.

**2.3. Other hazards**

Does not contain PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with Annex XIII of REACH.\*

The mixture does not contain any substance(s) included in the list established in accordance with Art. 59 sec. 1 of the REACH Regulation due to endocrine disrupting properties or is not identified as endocrine disrupting in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0,1 % by weight.\*

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

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**3.2. Mixtures**

<b>Name</b>	<b>Product identification</b>	<b>%</b>	<b>Classification according to the regulation (EC) no 1272/2008 [CLP]</b>
Xylene the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value ** (Note C)	CAS number: 1330-20-7 EC number: 215-535-7 Index number: 601-022-00-9 REACH: 01-2119488216-32	45-65	Flam. Liq. 3, H226, Acute Tox. 4 (Skin*), H312, Acute Tox. 4 (Inhalation*), H332, Skin Irrit. 2, H315

Note C: Some organic substances are placed on the market as a specific isomer or as a mixture of several isomers. In this case, the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.\*

Full text of hazard statements provided in section 16 of the Sheet.

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

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

Airways: If difficulties in breathing occur, remove the victim to fresh air and keep at rest in a position comfortable for breathing.\*

Skin: In case of skin contamination, immediately remove all contaminated clothing and wash contaminated skin with plenty of soap and water. Rinse skin with water/or shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation persists, consult a doctor.\*

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor. In the case of contact with eyes, immediately rinse with plenty of water and get medical advice.\*

Alimentary tract: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor.\*

First aiders should wear medical gloves.

**4.2. Most important symptoms both acute and delayed**

Symptoms/effects in the event of inhalation: Vapours may cause drowsiness and dizziness.\*

Symptoms/effects in the event of skin contact: Prolonged or repeated contact may cause skin dryness.\*

Symptoms/effects in the event of contact with eyes: May cause eye irritation.\*

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

Symptomatic treatment.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

Suitable extinguishing agents: Extinguishing powder, foam resistant to alcohol, carbon dioxide, water mist.

Unsuitable extinguishing agents\*: Do not use strong jets of water.

**5.2. Special hazards arising from the substance or mixture**

As a result of a fire, carbon monoxide and other toxic gases may be generated.\*

**5.3. Advice for fire fighters**

Protection during firefighting: Do not intervene without appropriate protective equipment. Self-contained, breathing apparatus. Complete protective clothing.\*

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency measures**

For personnel non taking part in emergency procedures:

Eliminate ignition sources. Provide sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures – see section 8 of the Sheet.

For personnel taking part in emergency procedures:

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**

Avoid release to the environment. Prevent from entering surface water and sewage system. Do not allow the product to enter groundwater, water reservoirs or sewage systems, even in small quantities.\*

**6.3. Methods and materials for containment and cleaning up**

Preventing the spread of contamination: Cover the spilled product with a non-combustible material such as sand, earth, vermiculite. Collect the product mechanically.\*

**6.4. Reference to other sections**

Personal protection measures – see section 8 of the Sheet. Disposal considerations – see section 13 of the Sheet.

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**SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**

**7.1. Precautions for safe handling**

Precautions for safe handling: Provide good ventilation of the workplace. Keep away from heat sources, hot surfaces, sources of sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protection measures.\*

Hygiene recommendations: Wash contaminated clothes before using them again. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink and smoke when using the product. Wash hands after each contact with the product.\*

**7.2 Conditions for safe storage, including any incompatibilities**

Technical measures: Ground/bond container and receiving equipment.\*

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed.\*

**7.3 Special end use (s)**

No further data available.\*

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES**

**8.1. Control parameters**

National values of the highest permissible concentrations in the work environment and biological limit values\*:

<b>Xylene (1330-20-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Xylene, mixed isomers, pure
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Poland- The highest permissible concentration at the workplace</b>	
Local name	Xylene mixture of isomers: 1,2-; 1,3-; 1,4-
NDS (OEL TWA)	100 mg/m <sup>3</sup>
NDSch (OEL STEL)	200 mg/m <sup>3</sup>
Regulatory reference	Official Journal 2018 item 1286

Monitoring method\*:

EN 482. Exposure at workplaces- general requirements for the characteristics of chemical agents measurement procedures.

Air pollutants formation\*:

No further data available.

DNEL and PNEC\*:

<b>Xylene (1330-20-7)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects after inhalation	289 mg/m <sup>3</sup>
Acute - local effects after inhalation	289 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	180 mg/kg body weight /day
Long - term systemic effects after inhalation	77 mg/m <sup>3</sup>
<b>DNEL/ DMEL (General population)</b>	
Acute - systemic effects after inhalation	174 mg/m <sup>3</sup>
Acute - local effects after inhalation	174 mg/m <sup>3</sup>
Long - term systemic effects after ingestion	1.6 mg/kg body weight /day
Long - term systemic effects after inhalation	14.8 mg/m <sup>3</sup>
Long-term - systemic effects, in contact with skin	108 mg/kg body weight /day

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<b>Xylene (1330-20-7)</b>	
<b>PNEC (Water)</b>	
PNEC (freshwater)	0.327 mg/l
PNEC (sea water)	0.327 mg/l
PNEC aqua ( intermittent, freshwater)	0.327 mg/l
<b>PNEC (Sediments)</b>	
PNEC sediments (freshwater)	12.46 mg/kg of dry mass
PNEC sediments (sea water)	12.46 mg/kg of dry mass
<b>PNEC (Soil)</b>	
PNEC Soil	2.31 mg/kg of dry mass
<b>PNEC (STP)</b>	
PNEC Sewage Treatment Plant	6.58 mg/l

Risk management\*:  
No further data available.

### 8.2 Exposure control

Workplace:  
Local extractors and general ventilation.

Symbols of personal protective equipment\*:



Eyes protection:  
Safety glasses\*

Skin and body protection\*:  
Proper protective clothes (coated impregnated fabrics).

Hands protection:  
Protective gloves PN-EN 374-3 (viton, thickness 0.7 mm, penetration time >480 min.; nitrile rubber, thickness 0.4 mm, penetration time >30 min.).

Respiratory protection:  
In case of insufficient ventilation, wear suitable breathing apparatus.\*  
Gas mask with A1/ B1 type absorber (EN 14387).\*

Environmental control  
Avoid release to the environment.\*

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour:	clear
Odour	characteristic*
Odour threshold	0.9-9 mg/m <sup>3</sup> (xylene)
Melting point	not applicable*
Freezing point	not available*
Boiling point	140°C*
Flammability*	Not applicable.*
Explosive properties	no data*
Explosion limits:	% bottom: 1.1 Vol %, top: 8.0 Vol% (xylene)
Flash point	24°C*
Auto ignition point	app.400°C*
Breakdown point	not available*
pH	not available*
Kinematic viscosity*	not available*
Solubility (in water)	poor

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n-octanol/water partition coefficient (log Kow):	not available*
Vapour pressure	9 hPa (20°C) (xylene)
Vapour pressure at 50 °C*	not available
Density	app. 0.95 g/cm <sup>3</sup>
Relative density*	not available
Relative vapour density at 20°C*	not available
Particle characteristics	not applicable

**9.2. Other information**

Information with regard to physical hazard classes\*: No data.

Other safety features\*: No data.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

The product is not reactive under normal conditions.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions under normal conditions of use unknown.\*

**10.4. Conditions to be avoided**

Protect against ignition sources. Avoid the accumulation of electrostatic charges (e.g. by grounding). Protect from sunlight. Avoid high temperatures.\*

**10.5. Incompatible materials**

Avoid contact with strong acids and bases and other strong oxidants.\*

**10.6. Hazardous decomposition products**

No hazardous decomposition product shall be formed under normal conditions of storage and use.\*  
As a result of thermal decomposition, carbon monoxide and other toxic gases are generated.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008\***

Acute toxicity (oral): Not classified (based on available data the classification criteria are not met).\*

Acute toxicity (skin): Harmful in contact with skin.\*

Acute toxicity (inhalation): Harmful if inhaled.

ATE CLP (skin): 1692.308 mg/kg body weight\*

ATE CLP (dust, mist): 2.308 mg/l/4h\*

Xylene	
LD50 (rat, oral)	3523 mg/kg*
LC50 (rat, inhalation)	27124 mg/l*
LD50 (rabbit, skin)	12126 mg/kg body weight Animal: rabbit, Animal sex: male*

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/eye irritation:** No data confirming the hazard class.

**Allergic effect on airways or skin:** The mixture is not classified as sensitizing. No data confirming the hazard class.

**Mutagenic effect on germ cells:** The mixture is not classified as mutagenic. No data confirming the hazard class.

**Carcinogenicity:** The mixture is not classified as carcinogenic. No data confirming the hazard class.

**Harmful effect on reproduction:** The mixture is not classified as having harmful effect on reproduction. No data confirming the hazard class.

**Specific target organ toxicity – single exposure:** No data confirming the hazard class.

**Specific target organ toxicity – repeated exposure:** No data confirming the hazard class.

**Xylene (1330-20-7)**

LOAEL (oral, rat, 90 days): 150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)

**Aspiration hazard:**

No data confirming the hazard class.

**11.2. Information on other hazards\***

No further data available.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Hazardous for the aquatic environment, short-time (acute): Not classified (based on available data the classification criteria are not met).\*

Hazardous to the aquatic environment, long-term (chronic): Not classified (based on available data the classification criteria are not met).\*  
NOT rapidly degradable.\*

Xylene (1330-20-7)

LC50 - Fish [1]: 2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)\*

EC50 - Crustaceans [1]: > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia\*

NOEC for chronic toxicity to fish: > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'\*

### **12.2. Persistence and degradability**

No data.

### **12.3. Bioaccumulative potential**

No data.\*

### **12.4. Mobility in soil**

No data.\*

### **12.5. Results of PBT and vPvB assessment**

No data.

### **12.6. Endocrine disrupting properties\***

No data.\*

### **12.7. Other hazardous effects\***

No data.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Dispose of according to applicable local and official waste regulations – see section 15.

Hand over to entities, which are authorized to collect, recover or dispose of wastes.

Product remains:

Waste code: 08 01 11 \* Waste paints and varnishes containing organic solvents or other dangerous substances. Do not discharge the product into the sewage system. Must not be disposed of with municipal waste. The remains of the product in the packaging should be carefully removed and allowed to dry completely (only in well-ventilated rooms).

**ATTENTION:** The remains should be dried only in well ventilated rooms, away from flammable products.

Contaminated packaging:

Packaging containing unhardened product remains is hazardous 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). Must not be disposed of with municipal waste. Contaminated container should be handed over to entities, which are authorized to collect, recover or dispose of wastes.

## **SECTION 14: TRANSPORT INFORMATION**

### **ADR/RID**

### **IMO/IMDG**

### **IATA-DGR**

#### **14.1. UN number**

1866

1866

1866

#### **14.2. UN proper shipping name**

RESIN, SOLUTION

RESIN SOLUTION \*

RESIN SOLUTION \*

Description of the shipping document\*:

UN 1866 RESIN, SOLUTION, 3, III, (D/E)

UN 1866 RESIN SOLUTION, 3, III (24°C c.c.)

UN 1866 Resin solution, 3, III

**14.3. Transport hazard class (-es)**

3  
3  
3



**14.4. Packaging group**

III  
III  
III

**14.5. Environmental hazards**

**ADR/RID:**

Environmentally hazardous: No.

**IMO/IMGD:**

Environmentally hazardous: No.

Marine pollutants: No. \*

**IATA-DGR:**

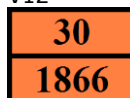
Environmentally hazardous: No.

**14.6. Special precautions for users**

**Road transport\*:**

Classification code (ADR):  
Limited Quantities (ADR):  
Special packing provisions (ADR):  
Mixed Packing Regulations (ADR):  
Transport category (ADR):  
Special provisions for carriage - Packages:

F1  
5 L  
PP1  
MP19  
3  
V12



Orange Tiles:

Tunnel restriction code (ADR):

D/E

**Sea transport\*:**

Special provisions (IMDG):  
Limited Quantities (IMDG):  
Special packing provisions (IMDG):  
EmS number (Fire):  
EmS number (Spillage):  
Cargo Stowage Category (IMDG):

223, 955  
5 L  
PP1  
F-E  
S-E  
A

**Air transport\*:**

No data.

**14.7. Sea transport in bulk in accordance with IMO instruments\***

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations / legislations specific for the substance or mixture**

- Annex XVII to the REACH Regulation (restriction conditions): It does not contain substances listed in Annex XVII to the REACH Regulation (restriction conditions).\*
- Annex XIV to the REACH Regulation (List of Authorizations): It does not contain substances listed in Annex XIV to the REACH Regulation (List of Authorizations).\*
- REACH Candidate List (SVHC): Contains no substances listed on the REACH Candidate List.\*
- PIC Regulation (EU 649/2012, Prior Informed Consent): It does not contain substances listed on the PIC list (EU Regulation 649/2012 on the export and import of dangerous chemicals).\*
- POP Regulation (EU 2019/1021, Persistent Organic Pollutants): It does not contain substances listed on the POP list (EU Regulation 2019/1021 on persistent organic pollutants).
- Ozone Depletion Regulation (EU 1005/2009): Contains no substances listed in the ozone depleting list (EU Regulation 1005/2009 on substances that deplete the ozone layer).\*
- Explosives Precursors Regulation (EU 2019/1148): It does not contain substances listed on the list of explosives precursors (EU Regulation 2019/1148 on the marketing and use of explosives precursors).\*
- Drug Precursors Regulation (EC 273/2004): It does not contain any substance(s) listed on the list of drug precursors (Regulation EC 273/2004 on the manufacture and marketing of certain substances used for the illicit manufacture of narcotic drugs and psychotropic substances).\*

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Other regulations (Poland)\*:

- Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.
- 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 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
- 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
- ADR Agreement: Government Statement of February 18, 2021 on the entry into force of amendments to Annexes A and B of the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957. (Journal of Laws of 2019, , item 874).

**15.2. Chemical safety assessment**

Not performed.

**SECTION 16: OTHER INFORMATION**

Full text of hazard statements mentioned in section 2 - 15 of the Sheet:

Acute Tox. 4 (Skin)	Acute toxicity - (skin), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (after inhalation), category 4
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Explanation of abbreviations and acronyms:

ADN	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE:	Estimated acute toxicity
BCF	BCF bioconcentration factor
BLV	Quantitative limit value
BOD	Biochemical Oxygen Demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived level causing minimal changes
DNEL	Derived no effect level of
EC number:	European Community number
EC50	Medium effective concentration
EN	European standard
IARC:	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	The concentration of the substance causing the death of 50% of the population of test organisms
LD50	The Dose causing the death of 50% of the population of test organisms
LOAEL	The lowest level at which harmful changes are observed
NOAEC	Concentration at which no adverse effects are observed
NOAEC	Dose level at which no adverse effects are observed
NOEC	Maximum Concentration at which no adverse effects are observed
OECD	Organization for Economic Cooperation and Development



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OEL	Occupational exposure limit value
PBT	substance, which is Persistent, Bio-accumulative and toxic
PNEC	Predicted no-effect concentration
RID	Regulations the international carriage of dangerous goods by rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical Oxygen Demand (ThOD)
TLM	Middle tolerance limit
VOC	Volatile Organic Compounds
CAS number:	CAS number:
N.O.S.	Not otherwise specified
vPvB	very Persistent and very Bio-accumulative
ED	Endocrine disrupting properties

Classification and procedure used to determine the classification of mixtures according to the Regulation (EC) 1272/2008 [CLP].

Flam. Liq. 3	H226	Based on research results
Acute Tox. 4 (Skin)	H312	Calculation method
Acute Tox. 4 (Inhalation: dust, mist)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method

Classification was made using the calculation method in accordance with the classification rules contained in Regulation No. 1272/2008/EC.

Other data sources:

ECHA European Chemicals Agency  
TOXNET Toxicology Data Network

Changes in the Sheet compared to the previous version:

Update of sections:

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/2008

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections: 2.1, 2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.2, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 9.2, 10.3, 10.4, 10.5, 10.6, 11.1, 11.2, 12.1, 12.3, 12.4, 12.6, 12.7, 14.2, 14.3, 14.5, 14.6, 14.7, 15.1, 16.

General update.

Sheet number: 06-0P1L-0123-V4