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

### 1.1. Product identification
**RUBBER PROTEX - SPRAY**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against
Car chassis protection agent in aerosol. 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 k. Częstochowy, PL
Tel.: +48 34 329 45 03
Fax: +48 34 320 12 16

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

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

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture
Mixture was classified as dangerous according to binding regulations – see section 15 of this Material Safety Data Sheet.

**Classification 1272/2008/EC:**
Aerosol products, hazard category 1. Extremely flammable aerosol.
Aerosol products, hazard category 1. Pressurized container: May burst if heated.
Irritating to skin, hazard category 2 (Skin Irrit. 2) Causes skin irritation.
Irritating to eyes, hazard category 2 (Eye Irrit. 2). Causes eye irritation.
Toxic effect on target organs – single exposure, hazard category 3 (STOT SE cat. 3).
May cause drowsiness or dizziness.
Hazardous to aquatic life – chronic hazard, category 2 (Aquatic Chronic 2) .
Toxic to aquatic life with long-lasting effects.

### 2.2. Label elements:

Contains:
Hydrocarbons, C7-C9, propane, acetone.

Pictograms:



Warning word: **Danger.**

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H315 Causes skin irritation.
H319 Causes eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long-lasting effects.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not breathe vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**
No data available.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

**3.1. Substances**
Not applicable.

**3.2. Mixtures**

**Product identification**
RUBBER PROTEX – SPRAY

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

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**
12,5-20%
CE: 921-024-6
CAS: -
Index no.: -
Registration no: 01-2119475514-35-XXXX

Flam. Liq. 2, H225;
Asp. Tox. 1, H304;
Skin Irrit. 2, H315;
Aquatic Chronic 2, H411;
STOT SE, H336.

**Propane**
12.5-20%
EC: 200-827-9
CAS: 74-98-6
Index no.: 601-003-00-5

Registration no.: 01-2119486944-21-XXXX
Flam. Gas. 1, H220;
Press. Gas., H280.

**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics**
12,5-20%
EC: 920-750-0
CAS: -
Index no.: -
Registration no.: 01-2119473851-33-XXXX

Flam.Liq. 2, H225;
Asp. Tox. 1, H304;
Aquatic Chronic 2, H411;
STOT SE, H336.

**Acetone**
<12.5%
EC: 200-662-2
CAS: 67-64-1
Index no.: 606-001-00-8
Registration no.: 01-2119471330-49-XXXX

Flam. Liq. 2, H225;
Eye Irrit.2, H319;
STOT SE 3, H336;
EUH066.

**Butane**
5-10%
CE: 203-448-7
CAS: 106-97-8
Index no.: 601-004-00-0
Registration no.: 01-2119474691-32-XXXX

Flam. Gas. 1, H220;
Press. Gas., H280.

**Isobutane**
5-10%
EC: 200-857-2
CAS: 75-28-5
Index no.: 601-004-00-0
Registration no.: 01-2119485395-27-XXXX

Flam. Gas. 1; H220;
Press. Gas., H280.

**Hydrocarbons, C9, aromatics**
1-2.5%
EC: 918-668-5
CAS: -
Index no.: -
Registration no.: 01-2119455851-35-XXXX

Flam. Liq. 2, H226;
Asp. Tox. 1, H304;
Aquatic Chronic 2, H411;
STOT SE, H336.

Full text of hazard statements to be found in section 16 of Safety Data Sheet.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures:
General indications: See section 11 of Safety Data Sheet.

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

Skin:
Remove contaminated clothes. Keep washing carefully contaminated skin with plenty of lukewarm water for about 15 min. If irritation persists consult a doctor.

Eyes:
Keep rinsing contaminated eyes with water for about 15 minutes. 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 hot water. Call a doctor.
Persons giving first aid should wear medical gloves.

### 4.2. Most important symptoms 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 first aid measures for immediate and specialist help should be available in the work place.

## 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**
In case of fire carbon monoxide and other toxic gases may be generated.

**5.3. Information for fire fighters**
Firefighting teams should be equipped with self-contained breathing apparatuses and light protective clothes.
Cool adjacent tanks by spraying water from safe distance.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For persons not being part of a rescue team:
Remove ignition sources. Ensure efficient ventilation of the room. Avoid direct contact with released substance. Avoid contact with skin and eyes. Personal protective measures – section 8 of the Sheet.

For members of rescue teams:
Members of rescue teams should be equipped with protective clothes made of coated fabrics, impregnated, protective gloves (viton), tight protective glasses and respiratory protection: gas mask with A type filter.

**6.2. Environmental precautions**
Prevent release into sewage system, surface and ground waters and soil.

**6.3. Methods and materials for containment and cleaning up**
Stop the release (close the liquid inflow, seal), put damaged container in an emergency container, collect the liquid mechanically into emergency container. In case of large release embank the area. In case of small quantities collect with universal binding material (e.g. mica, diatomaceous earth, sand).

**6.4. Reference to other sections**
Personal protective measures – see section 8 of the Sheet.
Disposal considerations – see section 13 of the Sheet.

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

**7.1. Precautions for safe handling**
Pressurized container. Do not spray over open flames or glowing material. Protect from ignition sources – do not smoke while spraying. Prevent release into sewage system, surface and ground waters and soil. Use in well ventilated rooms. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Undertake protection measures against electrostatic discharges. Use personal protective measures – section 8 of the Sheet.

**7.2. Conditions for safe storage including any incompatibilities**
Pressurized container. Protect from sunlight and temperature exceeding 50°C. Do not pierce or burn – even after use. Keep away from ignition sources – do not smoke. Keep away from children. Do not store near large quantity of organic peroxides and other strong oxidants. Undertake protection measures against electrostatic discharges. Store in cool, well ventilated rooms.

**7.3. Special end use(s)**
For professional use in car refinish taking into consideration information given in subsections 7.1 and 7.2 of the Sheet.

## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION MEASURES

**8.1. Control parameters**

Propane
CAS 74-98-6
MPC: 1800 mg/m$^3$
MPIC: ---
MPCC: ---

Butane
CAS 106-97-8
MPC: 3000 mg/m$^3$
MPIC: 1900 mg/m$^3$
MPCC: ---

National permissible biological values:
No data available.
*Notes*: *single sample collected at the end of daily exposure any day.

PN-EN 482: 2012 Exposure in work places – General Requirements Regarding Characteristic of the Procedures for Measurement of Chemical Factors.
PN-EN-689: 2002 Workplaces Atmospheres – Guidance for the Assessment of Exposure by Inhalation to Chemical Agents for Comparison with Limit Values and Measurement Strategy.
PN Z-04008-7:2002 Air Purity Protection. Sampling. Principles of Air Sampling in Work Place and Interpretation of Results.

### 8.2. Exposure control

Protection of respiratory system:
Gas mask with A type filter (EN 141).

Hand protection:
Protective gloves PN-EN 374-3 (viton, thickness 0,7 mm, penetration time >480 min)

Eye protection:
Tight protective glasses.

Skin protection:
Suitable protective clothes (coated, impregnated fabrics).

Work place:
Local exhausts and general ventilation.

Environmental exposure control:
Prevent release into sewage systems, surface and 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 | according to specification |
| Odour | strong, powerful |
| Odour threshold | not specified |
| pH | not applicable |
| Melting/freezing point | not applicable |
| Boiling point | not applicable |
| Flash point | <0°C |
| Autoignition point | not applicable |
| Breakdown point | no data available |
| Evaporation rate | not applicable |
| Flammability (solid, gas) | not applicable |
| Explosion limits | % bottom: 0.6 vol%, top: 13.0 vol% |
| Vapour pressure | 3500 hPa (20°C) |
| Vapour density (with regard to air)**:** | not specified |
| Density**:** | about 0.7 g/cm$^3$ (20°C) |
| Solubility (in water)**:** | poor |
| n-octanol/water partition coefficient**:** | not specified |
| Viscosity**:** | not specified |
| Explosive properties: | no data available |
| Oxidizing properties: | not applicable |

### 9.2. Other information
No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity
Product not reactive under normal conditions.

**10.2. Chemical stability**
Product is stabile under normal conditions.

**10.3. Possibility of hazardous reactions**
As a result of thermal decomposition carbon monoxide and other toxic gases may be generated.

**10.4. Conditions to be avoided**
Pressurized container. Protect from the sun and temperature over 50°C. Do not pierce or burn – even after use. Do not spray over open flame or hot material. Keep away from ignition sources - no smoking.
Keep out of the reach of children.

**10.5. Incompatible materials**
Avoid contact with large quantities of organic peroxides, strong acids and bases and other strong oxidants.

**10.6. Hazardous decomposition products**
As a result of thermal decomposition carbon monoxide and other toxic gases may be generated.

## SEKCJA 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**
No experimental data available for this preparation. Assessment was made on the basis of data given for dangerous components of the preparation.

**a) Acute toxicity**
Acetone

| | |
|---|---|
| $LD_{50}$ (rat, ingestion) | 5800 mg/kg |
| $LD_{50}$ (rabbit, skin) | 20000 mg/kg |
| $LC_{50}$ (rat, inhalation) | 39 mg/m$^3$/4h |

Butane

| | |
|---|---|
| $LC_{50}$ (rat, inhalation) | >658000 mg/m$^3$/4h |

**b) Caustic/irritating effect on skin**
Irritating to skin.

**c) Serious eye damage / eye irritation**
Irritating to eyes.

**d) Sensitizing effect on respiratory tract or skin**
Mixture is not classified as sensitizing. No available data confirming the hazard class.

**e) Mutagenic effect on reproductive cells**
Mixture is not classified as mutagenic. No available data confirming the hazard class.

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

**g) Harmful effect on reproduction**
Mixture is not classified as harmful on reproduction. No available data confirming the hazard class.

**h) Toxic effect on target organs – single exposure**
May cause drowsiness or dizziness.

**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.

Ways of exposure:
Respiratory system: Possible irritating effect.
Skin: Irritating to skin.
Eyes: Irritating to eyes.
Ingestion may cause irritation of alimentary tract, nausea, vomiting and diarrhea.

Poisoning symptoms:
Headaches and dizziness, fatigue, muscle weakness, drowsiness and in exceptional instances 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 for this preparation. Assessment was made on the basis of data given for dangerous components of the preparation.

### 12.1. Toxicity

Acetone

| | |
|---|---|
| *Daphnia magna* / EC50 (48 hours) | 8800 mg/l |
| Number in catalogue of water hazardous substances: | 6 |
| Water hazard class: | 1 |

### 12.2. Persistence and degradability
No data available.

### 12.3. Bioaccumulative potential
No data available.

### 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
Toxic effect on water life with long lasting effects.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods
Dispose according to suitable local and official regulations concerning wastes – see section 15 of the Sheet.
Pass to entities authorized to collect, recycle or dispose wastes.

Product remains:
Waste code: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances. Do not dispose into sewage system. Do not collect together with communal wastes. Empty the container until complete loss of pressure and leave the product to get dried (only in well ventilated rooms). Dry product is not dangerous waste. **Caution:** dry the remains in small portions away from flammable products. During chemical reaction large quantity of heat is generated!

Contaminated packaging:
**Do not pierce or burn the packaging even after use.** Packaging containing unhardened remains is dangerous waste. Waste code: 15 01 11* Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers. Do not collect together with communal waste.
Packaging should be returned to the producer. If it is not possible, the packaging should be passed to entities authorized to collect, recycle or dispose wastes.

## 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.**
**Packaging group**
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---
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**14.5.**
**Environmental hazards**
Yes.
---
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**14.6.**
**Special precautions for user**
Do not use open flames and so not smoke. Protect from sunlight and temperature exceeding 50°C. Do not transport together with materials of classy 1 (except materials of class 1.4S) and some materials of class 4.1 and 5.2. During transport avoid direct contact with materials of class 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 73/78 Convention and the IBC Code**
Not applicable.

## SECTION 15: REGULATORY INFORMATION

**15.1. P 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 December 18 2006 concerning the Registration, Evaluation, Authorization 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/EWG, 93/67/EWG, 93/105/WE and 2000/21/WE. Official Journal of the European Union L 136 of May 29 2007 with later amendments.
- Commission Regulation (EU) 2015/830 of May 28 2015 amending Regulation EC 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Official Journal of the European Union EU L 132 of May 29 2015.
- Regulation (EC) no 1272/2008 of the European Parliament and of the Council of December 16 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending EC Regulation no 1907/2006.

**15.2. Chemical safety assessment**
Not performed.

## SECTION 16: OTHER INFORMATION

**Full text of hazard statements from sections 2-15 of the Sheet:**

| | |
|---|---|
| Flam. Gas. 1 | Flammable gas, cat. 1. |
| H220 | Extremely flammable gas. |
| Press. Gas | Pressurized gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| Flam.Liq.2 | Flammable liquids, cat. 2. |
| H225 | Highly flammable liquid and vapour. |
| Skin Irrit. 2 | Caustic/irritating effect on skin, cat. 2. |
| H315 | Causes skin irritation. |
| Asp. Tox. 1 | Acute toxicity, cat. 1. |
| H304 | May be fatal if swallowed and enters airways. |
| STOT SE 3 | Toxic effect on target organs – single exposure, cat. 3. |

| | |
|---|---|
| H336 | May cause drowsiness or dizziness. |
| Aquatic Chronic 2 | Hazardous for aquatic life, cat. 2. |
| H411 | Toxic to aquatic life with long-lasting effects. |

**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 listed 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 the International Carriage of Dangerous Goods by Road.
**IMO** – International Marine Organization.
**RID** – Regulation for International Carriage of Dangerous Goods by Rail.
**IMDG-Code** – International marine code of dangerous goods.
**ICAO/IATA** – Technical instructions for safe air transport of dangerous goods.

Classification was made by calculation method according to classification rules given in Regulation 1272/2008/EC.

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

Changes: General update.

**Material Safety Data Sheet No.:** 0P1L0517V1