

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Commercial name Leak stop "RevoPro Revolution" for metal and rubber
Our code parts 70525R – 80525R - 70525R-5L

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

Industrial sector Automotive, Refrigeration and air-conditioning
Relevant identified uses Leak stop for metal and rubber parts
Application Industrial and professional

1.3. Details of the supplier of the safety data sheet



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1.4. Emergency telephone number

Mariel Srl +39 0322 838319 **Mon/Fri: 8.30-12.30 / 13.30-17.30**
CAV-CNIT Anti-Poison (toxicological) National Information Centre +39 0382 24444 **Hours: 24 h / 24 h**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP) The product has not classified.

2.2 Elements of the label

Labelling according to Regulation (EC) No 1272/2008 (CLP) Not applicable

2.3 Other dangers

The mixture is not included in Annex XIII of the Regulation (EC) 1907/2006.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

The mixture does not contain substances to be mentioned according to the criteria in point 3.2 of Annex II of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove the subject from the contaminated area and exposure him to fresh air. Consult a doctor.
Skin contact Remove contaminated clothing. Wash immediately with plenty of water or, if possible, take a shower. In case of skin irritation (e.g. redness) consult a doctor.
Eye contact Remove any contact lenses. Rinse immediately with plenty of water, even under the eyelids, for at least 15 minutes. Consult a doctor.
Ingestion Rinse the mouth thoroughly with water. Do not induce vomiting. Consult a doctor immediately.

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

For symptoms and effects due to the substance contained in the product, see section 11.
In some cases, the symptoms of poisoning may only appear after an extended period / after several hours.
Ingestion of large quantities of product may cause diarrhoea.

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

No further information are available. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂), foam, water spray, dry extinguisher.
Unsuitable extinguishing media High pressure water jets.

5.2. Special hazards arising from the substance or mixture

In case of fire the following can developed: carbon oxides, toxic gases.

5.3. Advice for firefighters:

Coordinate security measures based on the surrounding fire.
If the security measures allow it, stop the loss of the product.
If it is necessary, use nebulized water to cool the surfaces exposed to the fire.
In case of fire and/or explosion, do not breathe the fumes.
In the event of large fire or in enclosed fire or poorly ventilated areas, wear a full protective integral and a SCBA with independent air supply.
Wear protective clothing and protective equipment (self-contained breathing apparatus) standard for firefighters.
Collect contaminated fire extinguishing water must not be discharged into drains.
Dispose of waste and residues in accordance with local authority requirements.

SECTION 6: Accidental release measure

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area.
Avoid contact with eyes and skin.
Wear appropriate protective equipment (including personal protective equipment referred to in section 8) to prevent contamination of skin, eyes and personal clothing.
Pay attention to the risk of slipping.

6.2. Environmental precautions

Stop the loss if the local situation allows it.
Prevent the product from entering sewers, surface water or groundwater.
In case of spills, contact immediately the local authorities.
Do not release the product into the environment.

6.3. Methods and material for containment and cleaning up

Absorb the spilled product with inert absorbent material (universal absorbent, sand, fossil flour) and dispose of according to Section 13.

6.4. Reference to other sections

For any information regarding individual protection or disposal, see section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	Ensure good ventilation. Avoid contact with eyes and skin. Keep the product-impregnated cloths away from personal clothing. Do not smoke, do not drink or eat while handling the product. Observe directions reported on label and the instructions for use.
Hygienic measures	Follow the general hygiene rules for chemical products. Wash hands thoroughly at the end of each use of the product. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing and protective equipment before entering in the area where food is consumed.

7.2 Conditions for safe storage, including any incompatibility

Store in the original packaging and keep container tightly closed.
Store in a cool, well-ventilated and dry place.

Keep away from sources of heat, sparks and open flames.
Under any circumstances, prevent infiltration into the soil.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. In case of insufficient ventilation, wear self-contained breathing apparatus. Wash the hands before and after using the gas. Do not smoke. Personal protective equipment must comply with EU directives: respiratory protective equipment EN 136, 140, 149; eye protection (protective goggles or safety glasses) EN 166; skin protection EN 340, 463, 468, 943-1, 943-2; hands protection (protective gloves) EN374, safety boots EN ISO 20345.

8.2.2 Individual protection measures, such as personal protective equipment

- a) Eye/face protection** Safety glasses with side-shields (according to directive EN 166). If splashes, goggles or face shield.
- b) Skin protection**
- i) Hand protection It is advisable to use protective gloves resistant: PVC, nitrile and neoprene. The penetration time of the gloves must be greater than the period of expected use. Gloves should be replaced immediately if they show signs of wear or deterioration.
Use moisturizing cream in case of repeated or prolonged contact.
 - ii) Other Wash hands thoroughly after exposure. Do not eat, drink or smoke during use.
Wash thoroughly contaminated clothing before re-use.
- c) Respiratory protection** Respiratory protection is not normally required in areas with adequate ventilation. In areas with poor ventilation or in the event of probable nebulisation, the use of an appropriate respiratory equipment device is recommended.



8.2.3. Environmental exposure controls

Handling in accordance with good industrial hygiene and safety practice.
Prevent spillage of the product into the drains or watercourses.
For more information see sections 7 and 13.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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|---|---------------------|
| a) Physical state | Liquid |
| b) Colour | Light yellow, clear |
| c) Odour | Charateristic |
| d) Melting point/freezing point | n.d.a. |
| e) Boiling point or initial boiling point and boiling range | n.d.a. |
| f) Flammability | n.a. |
| g) Lower and upper explosion limit | n.a. |
| h) Flash point | > 232 °C |
| i) Auto-ignition temperature | n.d.a. |
| j) Decomposition temperature | n.d.a. |
| k) pH | n.d.a. |
| l) Kinematic viscosity | n.a. |

m) Solubility (in the water)	Insoluble
n) Partition coefficient n-octanol/water (log value)	n.a.
o) Vapour pressure	< 0,003 kPa @ 25 °C
p) Density and/or relative density	0,86 – 0,89 g/ml
q) Relative vapour density	n.a.
r) Particle characteristics	n.a.

9.2. Other information

Liposolubility	n.d.a.
Conductivity	n.d.a.
Surface tension	n.d.a.
Solvent content	n.a.

SECTION 10: Stability and reactivity**10.1. Stability**

Stable under normal storage and handling conditions.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Unusual reactions are not expected under normal use and storage conditions.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid the accumulation of vapours in low or confined areas. Heating may cause a fire. Do not pierce or burn, even after use.

10.5. Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Dangerous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****a) Acute toxicity**

Oral	LD50: > 5000 mg/kg Animal species: Rat
Inhalation	Long-term exposure to the fumes of the product can cause irritation to the respiratory tract.

b) Skin corrosion/irritation

Frequent and prolonged contact can cause skin irritation and dermatitis.

c) Significant damage/eye irritation

Contact with eyes causes irritation and burning.

d) Respiratory and skin sensitization

n.d.a.

e) Germ cell mutagenicity

n.d.a.

f) Carcinogenicity

Ames test: Negative for the modified test

g) Reproductive toxicity

n.d.a.

h) STOT-SE, single exposure

n.d.a.

i) STOT-RE, repeated exposure

n.d.a.

j) Aspiration hazard

n.d.a.

11.2. Other information

For more information on components that are hazardous to health, see section 2.

SECTION 12: Environmental information

12.1. Toxicity

Fish	n.d.a.
Aquatic invertebrates	n.d.a.
Algae	n.d.a.

12.2. Persistence and degradability

n.a.

12.3. Bio-accumulative potential

n.a.

12.4. Mobility in soil

Avoid infiltration into the ground.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

n.a.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal consideration

13.1. Waste treatment methods

General information	Dispose of waste or receptacles according to local regulations. Do not pierce or incinerate, Even if the containers are empty. Waste, residues, empty containers, unworked work clothes and contaminated cleaning materials should be collected in specially designed containers. Bearing labels with the indication of the respective content.
Disposal method	Disposal must be entrusted to a waste management company, subject to national and local regulations. Uncontaminated packaging can be recycled, dispose of packaging that cannot be cleaned.

The user is obliged to comply with EC, state and / or local regulations regarding waste disposal.

European Waste Code Code (EWC)

16 03 05* Wastes not otherwise specified in the list - Organic wastes containing dangerous substances.

SECTION 14: Transport information

The product is not considered dangerous according to the provisions in force concerning the transport of dangerous goods by road (ADR), by rail (RID), by inland waterways (AND), by sea (IMDG) and by air (ICAO).

14.1. UN Number or ID number	Not applicable
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	Unless otherwise specified, general transport safety measures must be carried out.

14.7. Maritime transport in bulk according to IMO instruments

n.a.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product is not subject to labeling according to EC directives or respective national regulations.

15.2 Chemical safety assessment

A chemical safety assessment (CSA) is not provided for the product.

SECTION 16: Other information

This Material Safety Data Sheet has been made according European Directive in force.

History	Version 3 by Mariel Srl Revision date: 10/2021	Version 2 Date: 06/2019	Version 1 Date: 09/2018
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b) Abbreviations and acronyms

ADN	Agreement Dangerous goods by inland waterways
ADR	Accord Dangerous Route
AMES	Ames Bruce Test (it is a biological assay to assess the mutagenic potential of chemical compounds)
CAS	Chemical Abstracts Service number
CE / EC	European Community
CLP	Classification, Labelling, Packaging
CSA	Chemical Safety Assessment
e.g.	for example
EWC	European Waste Code
GHS	Globally Harmonized System
ICAO	International Civil Aviation Organization
IMG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD50	Lethal Dose 50%
n.a.	not applicable
n.d.a.	no data available
ONU	United Nations Organizations
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Rail International Dangerous goods
UE / EU	European Union
vPvB	Very Persistent very Bioaccumulative

Notice of liability

This information should not be considered a guarantee or a specification of the quality of the product. This information is provided with the purpose of allowing the use, storage, transport and disposal of the product in the most correct and safe ways for workers and the environment.

The information contained in this safety data sheet are based on our current knowledge and EU and national laws; they describe the product only with regard to safety requirements. The conditions of the user are beyond our knowledge and control. The product should not be used for purpose other than those specified. It is always the responsibility of the user to take all the necessary measures to comply with the requirements of current legislation. The information contained in this form should not be considered as a guarantee of its properties.
