

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PRODUCT NAME: RAIN SHIELD R-6

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

Relevant identified uses: Ceramic protection of automotive paint.

Uses advised against: not specified

1.3 Details of the supplier of the safety data sheet

Supplier:

FX International Sp. z o.o.

Address:

ul. Mikołowska 65, 44-203 Rybnik

tel.:

+48 577 899 066

e-mail address of competent person responsible for the SDS:

biuro@fxprotect.pl

1.4 Emergency telephone number

112 (24-hour)

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification based on the manufacturer/distributor documentation.

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335

2.2 Label elements



GHS02



GHS07

Signal word:

WARNING

Identifier:

Contains: dibutyl ether

Hazard statement(s)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Supplemental information on the label

NOT APPLICABLE

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves.
P337 + P313	If eye irritation persists: Get medical advice.
P404	Store in a closed container.
P501	Dispose of contents/container in accordance with applicable regulations.

Supplemental Hazard information (EU):

No specific information.

Contents in accordance with 648/2004/EC Directive:

NOT APPLICABLE

2.3 Other hazards

No information on meeting the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Section 3. Composition/information on ingredients

3.1 Substances

NOT APPLICABLE

3.2 Mixtures

dibutyl ether				
REACH No	01-2119982240-42			
Index No	603-054-00-9			
EC No	205-575-3			
CAS No	142-96-1			
Concentration %	5-30			
Classification according to 1272/2008/EC	Flam. Liq. 3	H226	GHS02	Wng
	Skin Irrit. 2	H315	GHS07	Wng
	Eye Irrit. 2	H319	GHS07	Wng
	STOT SE 3	H335	GHS07	Wng
	Aquatic Chronic 3	H412	-	-

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Components not classified:

Name:	CAS No:	EC No:	Content [%]
silane / siloxane polymer	proprietary	proprietary	20-60
silane / siloxane polymer	proprietary	proprietary	30-70
silane / siloxane polymer	proprietary	proprietary	5-40
silane / siloxane polymer	proprietary	proprietary	5-30
hardener catalyst	proprietary	proprietary	1,0-4,0

For full text of H-statements: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

General notes

Do not distribute anything orally to an unconscious person. In case of accident or feel unwell, seek medical advice immediately (show the label). If symptoms persist or in any doubt, seek medical advice. If the victim is not breathing, immediately give artificial respiration.

Inhalation

Remove to fresh air. Keep the affected person warm and calm.

Skin contact

Wash with plenty of soap and water.

Eye contact

Rinse eyes with plenty of water (if possible with eye wash) for several minutes (with eyelid opened), avoid strong water jet due to risk of corneal damage.

Remove contact lenses during washing. Immediate consult ophthalmologist.

Note: People exposed to eye contamination should be advised on the necessity and methods of flushing.

Ingestion

Do not induce vomiting. If the victim is completely conscious, rinse the mouth thoroughly with water. If symptoms of gastrointestinal irritation occur consult a doctor, if it is possible show the container, label or MSDS.

Protection of first-aiders:

Do not take any action that would harm anyone unless you are properly trained. Always use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact

Redness, tearing and pain.

Inhalation

Dizziness, headache, nausea, and chest tightness.

Skin contact

Redness.

Ingestion

Nausea, vomiting, abdominal pain.

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

Seek medical advice in case of accident or malaise. Do not induce vomiting or give anything by mouth to an unconscious person. Show the safety data sheet or label / package to the medical staff providing the assistance. Helpers under an unknown concentration of vapors / mist should be provided with adequate respiratory protection.

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂, powder, foam resistant to alcohol, water spray or water mist.

Unsuitable extinguishing media

water jets

5.2 Special hazards arising from the substance or mixture

Produces suffocating and toxic fumes on combustion containing carbon oxides, nitrogen oxides. Inhalation of combustion products leads to serious health risks.

5.3 Advice for firefighters

Follow the procedures for extinguishing fires of chemicals. In case of fire involving large quantities of product, all persons should be removed / evacuated from the danger area. Closed containers exposed to fire or high temperature to be cooled down with water spray from a safe distance, if possible, and safely remove them from the hazard area. Do not allow fire extinguishing sewerage to enter sewage system and water bodies. Dispose of effluent and fire residue in accordance with local regulations. Persons involved in firefighting should be trained, equipped with self-contained breathing apparatus and full protective clothing.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing. Provide ventilation. Avoid breathing vapors. Use personal protective equipment.

6.2 Environmental precautions

Do not allow the product to enter sewers, water and soil. Limit the spread of the product after release.

6.3 Methods and material for containment and cleaning up

Place the damaged packaging in the replacement packaging. Dilute the vapors with a spray of water. Small amounts of released product should be absorbed with inert, non-flammable absorbent material (e.g. soil, sand, vermiculite), collected in a closed, labeled waste container. Dispose of in accordance with local regulations. If necessary, to remove product or contaminated product absorbent material, enlist the help of specialized companies engaged in transportation and elimination of waste. Thoroughly ventilate release site.

6.4 Reference to other sections

Refer to Section 8 for appropriate personal protective equipment. For disposal information, see section 13. Refer to Section 7 for precautionary measures.

Section 7. Handling and storage

7.1 Precautions for safe handling

Do not inhale vapors. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Keep unused containers tightly closed. Observe the basic rules of hygiene: do not eat, drink or smoke during work; each time after finishing / stopping work, wash your hands with water. Do not use contaminated

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clothing; immediately take off contaminated clothing, wash before reuse. Ground / bond container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautions against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

- Pay attention to warnings on the label.
- Store only in certified, original, properly labeled, sealed packaging.
- Prohibit access to unauthorized persons.
- Open containers close carefully and hold upright.
- Store on a hard surface.
- Store in a dry, cool, well-ventilated area.
- Keep away from strong oxidants, strong alkalis, and strong acids.
- Do not release to drains, surface or ground water (this also includes empty containers).
- Recommended storage temp. 5-25 °C.
- Protect against direct sunlight, high temperatures, fire and sparks.
- Do not use tools that generate sparks.
- Do not pierce or cut the container, do not weld on it or in its vicinity.

7.3 Specific end use(s)

Application method according to information provided by the manufacturer or distributor.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Legal basis:

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Text with EEA relevance)

TWA, STEL

No specific information.

DNEL

No specific information.

PNEC

No specific information.

8.2 Exposure controls

Observe general safety and hygiene rules. Do not eat, drink or smoke during product handling. Wash hands before meals and after work. Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors. Provide effective local ventilation in workstations, and general ventilation.

Respiratory protection:

In case of insufficient ventilation, wear gas mask with filter A (EN 14387) type.

Skin protection:

Use appropriate clothing to eliminate any risk of skin contact.

In order to protect exposed skin it is recommended to use moisturizing creams, but they should not be used immediately after exposure.

Hand protection:

Protective gloves.

Recommended material: latex.

Thickness: >0,1mm

Permeation time: ≥30min

Eye and face protection:

In case of prolonged exposure or splashes of liquid hazard, wear safety sealed goggles according to EN 166. It is recommended to equip the workplace in a water shower for rinsing eyes.

Thermal hazards:

Heating can release hazardous gases. Flame or intense heat may cause violent rupture.

Environmental exposure controls:

Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Parameter	Value
Appearance (20°C)	Liquid, pale yellow
Odour	Characteristic
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point (°C)	Not determined
Initial boiling point and boiling range (°C)	Not determined
Flash point (°C)	16
Evaporation rate	Not determined
Flammability (solids, gases)	Not applicable – liquid
Flammability or explosive limits [% v/v]: upper lower	Not determined
Vapour pressure (20°C, mmHg)	Not determined
Vapour density (air = 1)	Not determined
Density (20°C, g/cm ³)	Not determined
Solubility	Hardly soluble in water

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Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	200
Decomposition temperature (°C)	Not determined
	Not determined
Viscosity kinematic (mm ² /s, 40°C) dynamic (mPa·s, 25°C)	Not determined
Explosive properties	May create an explosive atmosphere with air
Oxidising properties	Not applicable

9.2 Other information

No specific information.

Section 10. Stability and Reactivity

10.1 Reactivity

There is no specific test data for reactivity for this product.

10.2 Chemical stability

Stable under normal ambient conditions, as well as under expected temperature and pressure during storage and handling.

10.3 Possibility of hazardous reactions

Under recommended storage and use conditions, no hazardous reactions should occur.

10.4 Conditions to avoid

High temperatures, direct sunlight

10.5 Incompatible materials

Strong oxidants, sources of ignition.

10.6 Hazardous decomposition products

Carbon monoxide and dioxide, nitrogen oxides.

Section 11. Toxicological information

This product has been evaluated following the conventional method specified by the EU Directive and is appropriately classified in terms of toxicity. Details are given in Sections 2 and 3.

11.1 Information on toxicological effects

Acute toxicity

Oral:

dibutyl ether: LD50: 7400mg/kg (rat)

Inhalation:

dibutyl ether: LC50: 4000ppm (rat)

Acute toxicity (other routes): No specific information

Skin corrosion/irritation

dibutyl ether: Draize test, skin: 100mg: moderate irritation

Serious eye damage/irritation No specific information

Respiratory or skin sensitisation No specific information

Germ cell mutagenicity No specific information

Carcinogenicity No specific information

Reproductive toxicity No specific information

STOT-single exposure No specific information

STOT-repeated exposure No specific information

Aspiration hazard No

Section 12. Ecological information

For more information on possible environmental effects, see Section 2.1. (classification). No data for the final product, the evaluation was made based on the individual components.

12.1 Toxicity

Do not allow to enter surface waters, watercourses or sewage system.

12.2 Persistence and degradability

No specific information.

12.3 Bioaccumulative potential

No specific information.

12.4 Mobility in soil

No specific information.

12.5 Results of PBT and vPvB assessment

No specific information.

12.6 Other adverse effects

The product should not enter the water or sewerage system or the soil.

Section 13. Disposal considerations

13.1 Waste treatment methods

Dispose in accordance with all applicable regulations. Dispose of the product and its container in a safe manner. Prevent spillage of product into soil and sewage water.

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Section 14. Transport Information

The product is subject to regulations on the transport of dangerous goods included in ADR (road), RID (rail), ADN (inland transport), IMDG (sea), ICAO / IATA (air).

Quantities excluded:

The maximum net amount for inner packaging: 30ml

The maximum net quantity for outer packaging: 500ml

	ADR
14.1 UN number	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class(es)	3, F1 
14.4 Packing group	II
14.5 Environmental hazards	Not hazardous to the environment according to the transport regulations.
14.6 Special precautions for user	When handling a load wear personal protective equipment according to section 8. Quantity limited: 1l Tunnel restriction code: D / E Hazard identification number: 33 Proceedings: S2 S20 Special provision: 274 601 640D
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Does not apply in the form in which it was delivered.

Section 15. Regulatory information

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

- 1) Regulation (EC) No. 1907/2006 (Annex II Guidelines for the preparation of Safety Data Sheets)
- 2) Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 132/8 29.5.2015, CELEX 32015R0830)
- 3) Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 133 31.5.2010, CELEX 32010R0453)
- 4) 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 (OJ L 353 31.12.2008, CELEX 32008R1272)
- 5) 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 (OJ L 396 30.12.2006, CELEX 32006R1907)
- 6) Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing some Directives (OJ L 312 22.11.2008, CELEX 32008L0098).
- 7) Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (OJ L 286 31 October 2009, CELEX 32009R1005).
- 8) Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (Text with EEA relevance) (OJ L 260 30.9.2008, CELEX 32008L0068)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances

Category	Threshold value for lower-tier establishment [t]	Threshold value for upper-tier establishment [t]
P5c FLAMMABLE LIQUIDS	5000	50000

15.2 Chemical Safety Assessment

No chemical safety assessment has been made for the product.

Section 16. Other information

The data contained herein refer to the product in commercial form.

Relevant H-statements (number and full text)

- H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335
H412 Harmful to aquatic life with long lasting effects.

Hazard classes and categories

Aquatic Chronic 3	Hazardous to the Aquatic environment	Category	3
Eye Irrit. 2	Eye damage / irritation	Category	2
Flam. Liq. 3	Flammable liquids	Category	3
Skin Irrit. 2	Skin corrosion / irritation	Category	2

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STOT SE 3 Specific target organ toxicity (single exposure)

Category 3

Abbreviations and acronyms

ACGIH	Association Advancing Occupational and Environmental Health
ADN	L' Accord européen relatif au transport international des marchandises Dangereuses par voies de navigation intérieures –The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Accord Dangereux Routier - European regulations concerning the international transport of dangerous goods by road
ASTM	American Society for Testing and Materials
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BGW	Biologischer Grenzwert (biological limit value, Germany)
CAS	Chemical Abstract Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or Toxic to Reproduction
CSA	Chemical safety assessment
CSR	Chemical safety report
DIN	Deutsches Institut für Normung - German Institute for Standardisation
DNEL	Derived No-effect Level
EC	European Community
EC50	Median Effective Concentration (required to induce a 50% effect)
ES	Exposure Scenario
EWC	European Waste Catalogue
GHS	Global Harmonized System
IATA	International Air Transport Association
IC50	Median Inhibition Concentration (concentration that reduces the effect by 50%)
IMDG	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
LDLo	Lethal Dose Low
LogPow	octanol/water partition coefficient
VOC	Volatile organic compound
MARPOL 73/78	The International Convention for the Prevention of Pollution from Ships
NIOSH	The U.S. National Institute for Occupational Safety and Health
NOEC	No Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic (chemical)
PEL	Permissible Exposure Limits
PNEC	Predicted No Effect Concentration
REACH	Regulation 1907/2006/EC for Registration, Evaluation, Authorization and Restriction of Chemical
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RRN	REACH registration number
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
SVHC	Substances of very high concern
TWA	Time Weighted Average
vPvB	very Persistent very Bioaccumulative (chemical)

The information in this SDS is based on the present state of our knowledge and current law basis. The product is not to be used for purposes other than those specified under Section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

*The SDS has been developed by **Pro-Perfekt, biuro@properfekt-msds.pl***

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