

SAFETY DATA SHEET

CONPROTECT RF 934

(liquid)

Anti- corrosion admixture

Date prepared: 2024

Revision date:

Version: 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name *ConProtect RF 934*
Pure substance/mixture *Mixture*

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

Relevant identified uses *For industrial use. Corrosion inhibitor.*
Uses advised against *Not determined.*

1.3. Details of the Supplier of the Safety Data Sheet

Name of the manufacturer *SL Protection OÜ*
Address *Vana-Narva mnt 30, Maardu, 74114 Harju maakond, Estonia*
E-mail *info@slprotection.eu*
Phone/fax *(+372) 55666174*

1.4. Emergency telephone number

Emergency telephone number *Estonian National Poisons Information Centre: 16662 (+372 794 3794 from abroad) / Emergency telephone number: 112*

Emergency telephone - \$45 - (EC)1272/2008

Europe	112
Estonia	16662 (24/7)
Finland	0800 147 111 (call is free of charge) +358 9 471 977
Austria	+43 (0)1 406 43 43
Bulgaria	+359 2 9154 233 (24/7)
Croatia	+385 1 2348 342 (24/7)
Czech Republic	+420 224 919 293 +420 224 915 402
Denmark	+45 8212 12 12
France	+33 (0)1 45 42 59 59 (24/7)
Greece	+30 2107793777 (24/7)
Iceland	543 2222 (24/7)
Ireland	+353 1 809 21 66 (8am-10pm; 7 days a week)
Italy	Numero telefonico del centro antiveleni: 0039 02-66101029
Latvia	+371 67042473
Lithuania	+370 (85) 2362052

Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 (0)88 755 8000 Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen
Norway	+47 22 59 13 00
Portugal	+351 800 250 250 (24/7)
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20(24h/365 días), Únicamente para respuesta sanitaria en caso de urgencia
Sweden	+46 10 456 6700

2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazards

Skin Irrit. 2, H315

Eye Irrit. 2A, H319

Skin Sens. 2 H317

See Sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

Label element



Signal word

Warning

Hazard statements

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Precautionary statements

Prevention:

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Disposal: *Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.*

Other hazards: *No data available.*

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity:	CAS no.	Content in percent:
Triethoxy(octyl)silane	2943-75-1	<20%
Isotridecanol, ethoxylated	69011-36-5	<2%
2-diethylaminoethanol	100-37-8	<1%

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Preparation of: organofunctional polysiloxane and Water. The exact concentration has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice *Immediately remove contaminated clothing.*

Inhalation *Following inhalation of aerosols or mist: Move to fresh air. Possible discomforts include severe irritation of mucus lining (nose, throat, eyes), cough, sneezing and flow of tears. Get medical attention if discomfort continues.*

Eye contact *Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention. In case of persistent discomfort: Consult an ophthalmologist.*

Skin contact *Wash off immediately with soap and plenty of water, for at least 15 minutes. If skin irritation persists, get medical attention. Wash clothes before wearing them again. Destroy contaminated shoes or clean them thoroughly before wearing them again*

Ingestion *Rinse the mouth with water. Drink plenty of water in small sips. In case of discomfort, obtain medical attention.*

Self-protection of the first aider *No data available*

Most important symptoms and effects, both acute and delayed

Symptoms *After absorbing large amount of substance, apply therapy for irritative effects. If substance has been swallowed, early endoscopy is recommended in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, suck away leftover substance. Allergic reactions cannot be excluded. Apply treatment of allergic reaction if necessary.*

Hazards: *None known.*

Indication of any immediate medical attention and special treatment needed

Note to doctors *If required, therapy of irritative effect. If substance has been swallowed: Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance.*

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media *Water spray, CO₂, dry powder or foam.*

Unsuitable extinguishing media *High volume water jet.*

Special hazards arising from the substance or mixture *Standard procedure for chemical fires.*

Advice for firefighters**Special fire-fighting procedures:**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

Special protective equipment and precautions for fire-fighters

As in any fire, wear self-contained positive pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.

Accidental release measures: *No data available.*

Methods and material for containment and cleaning up: *Soak up with inert absorbent material (e.g. sand, diatomaceous earth, vermiculite). Fill into marked, sealable containers. To be disposed of in compliance with existing regulations.*

Environmental precautions: *Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.*

7. HANDLING AND STORAGE

Precautions for safe handling

Local/Total ventilation: *Provide adequate ventilation.*

Safe handling advice: *Handle and open container with care. Handle in accordance with good industrial Hygiene and safety practice. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and amendments (CE certification). If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapours or aerosols. Avoid contact with skin and eyes.*

Contact avoidance measures: *No data available*

Storage

Safe storage conditions: *Keep tightly sealed in original packing. Protect from frost. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Explosion protection equipment required. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Do not store together with: strong acids, bases. Keep at temperature not exceeding 40°C.*

Safe packaging materials: *No data available*

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits *None of the components have assigned exposure limits.*

Biological Limit Values *No biological exposure limits noted for the ingredient(s).*

Appropriate Engineering Controls *Provide adequate ventilation.*

Individual protection measures, such as personal protective equipment

General information: *No data available.*

Eye/face protection: *Safety glasses. Use chemical splash goggles or face shield.*

Hand Protection: *Material: Polychloroprene (PCP)
Break-through time: >= 480 min.
Glove thickness: 0.5 mm.
Material: Fluorinated rubber (FKM)
Break-through time: >= 480 min.
Glove thickness: 0.4 mm
Guideline: Source: GESTIS substance database (hazardous substance information system of commercial professional associations)
Additional Information: Selection of protective gloves to meet the requirements of specific workplaces. The suitability for a specific workplace should be discussed with the producers of the protective gloves., The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials., Be aware that in daily use the durability of a chemical resistant*

protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

Skin and Body Protection:

Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used. Suitable protective clothing - Use disposable clothing if appropriate.

Respiratory Protection:

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self-contained respiratory apparatus. Use only respiratory protection equipment with CE-symbol including four-digit test number. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Note time limit for wearing respiratory protective equipment.

Hygiene measures:

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Immediately remove contaminated clothing. Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	<i>Liquid</i>
Form	<i>Liquid</i>
Colour	<i>White</i>
Odour	<i>Almost odorless, slightly alcoholic</i>
Odour threshold	<i>No data available.</i>
Freezing point:	<i>N/A</i>
Boiling Point:	<i>N/A</i>
Flammability:	<i>N/A</i>
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	<i>No data available.</i>
Explosive limit - lower:	<i>No data available.</i>
Flash Point:	<i>> 95 °C Method: DIN EN ISO 2719</i>
Auto-ignition temperature:	<i>No data available.</i>
Decomposition Temperature:	<i>No data available.</i>
pH:	<i>9,5- 11,4 (20 °C) DIN 38404-C5</i>
Viscosity	

Dynamic viscosity:	<i>20,4 mPa.s @ 20 °C</i> <i>Method: DIN 53019</i>
Kinematic viscosity:	<i>No data available.</i>
Flow Time:	<i>No data available.</i>
Solubility(ies)	
Solubility in Water:	<i>No data available.</i>
Solubility (other):	<i>No data available.</i>
Partition coefficient (n-octanol/water):	<i>No data available.</i>
Vapor pressure:	<i>No data available.</i>
Relative density:	<i>No data available.</i>
Density:	<i>0.997- 1.006 g/cm³ @20 °C Method: DIN 51757</i>
Bulk density:	<i>No data available.</i>
Relative vapor density:	<i>No data available.</i>
Other information	
Peroxides:	<i>Not applicable.</i>
Miscible (water):	<i>Miscible.</i>

10. STABILITY AND REACTIVITY

Reactivity	<i>No dangerous reaction known under conditions of normal use.</i>
Chemical stability	<i>Stable under the recommended storage and handling conditions.</i>
Explosion data	
Possibility of hazardous reactions	<i>None under normal processing.</i>
Conditions to avoid	<i>Protect from frost. Keep at temperature not exceeding 40°C.</i>
Incompatible materials	<i>Strong acids and strong bases.</i>
Hazardous decomposition products	<i>Ethanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.</i>

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	<i>No data available.</i>
Eye contact	<i>No data available.</i>
Skin contact	<i>No data available.</i>
Ingestion	<i>No data available.</i>

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	<i>No data available.</i>
Dermal	
Product:	<i>Not classified for acute toxicity based on available data.</i>
Inhalation	
Product:	<i>Not classified for acute toxicity based on available data.</i>
Repeated dose toxicity	
Product:	<i>No data available.</i>
Components:	
Triethoxy(octyl)silane	<i>NOAEL (Rat, Oral, 90 d, 7 days a week): 250 mg/kg</i>
Skin Corrosion/Irritation	
Product:	<i>Irritating.</i>
Serious Eye Damage/Eye Irritation	
Product:	<i>Irritating</i>
Respiratory or Skin Sensitization	
Product:	<i>No data available.</i>
Components:	
Triethoxy(octyl)silane	<i>Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.</i>
2-diethylaminoethanol	<i>Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.</i>
Carcinogenicity	
Product:	<i>No data available.</i>
Components:	
Triethoxy(octyl)silane	<i>No evidence that cancer may be caused.</i>
Germ Cell Mutagenicity	<i>No evidence of mutagenic effects.</i>
In vitro	
Product:	<i>No data available.</i>
Components:	
Triethoxy(octyl)silane	<i>Ames test (OECD 471): negative</i>
	<i>Chromosomal aberration (OECD 473): negative</i>
	<i>Gene mutation test (OECD 476): negative</i>
2-diethylaminoethanol	<i>Gene mutation test (OECD 471): negative</i>
	<i>Gene mutation test (OECD 476): negative</i>
In vivo	
Product:	<i>No data available.</i>
Components:	
2-diethylaminoethanol	<i>Micronucleus test (OECD 474) Oral (Mouse, Female, Male): negative</i>
Reproductive toxicity	
Product:	<i>No data available.</i>
Components:	
Triethoxy(octyl)silane	<i>No evidence of reproductiontoxic properties</i>
2-diethylaminoethanol	<i>No negative effects.</i>
Specific Target Organ Toxicity - Single Exposure	
Product:	<i>No data available.</i>
Specific Target Organ Toxicity - Repeated Exposure	
Product:	<i>No data available.</i>

Aspiration Hazard**Product:** *No evidence of aspiration toxicity.***Information on health hazards****Other hazards****Product:** *No toxicological tests are available on the product..*

12. ECOLOGICAL INFORMATION

Ecotoxicity:**Acute hazards to the aquatic environment:****Fish****Product:** *No data available.***Components:***Triethoxy(octyl)silane* *In the range of water solubility not toxic under test conditions.**2-diethylaminoethanol* *LC 50 (Leuciscus idus, 96 h): 147 mg/l***Aquatic Invertebrates****Product:** *No data available.***Components:***Triethoxy(octyl)silane* *In the range of water solubility not toxic under test conditions.**2-diethylaminoethanol* *EC 50 (Daphnia magna, 48 h): 165 mg/l***Toxicity to Aquatic Plants****Product:** *No data available.***Components:***2-diethylaminoethanol* *EC 50 (Desmodesmus subspicatus (Scenedesmus subspicatus), 72 h): 62.3 mg/l (DIN 38412, T.9) growth rate***Toxicity to microorganisms****Product:** *No data available.***Toxicity to terrestrial organisms****Product:** *No data available.***Chronic hazards to the aquatic environment:****Fish****Product:** *No data available.***Aquatic Invertebrates****Product:** *No data available.*

Components:

Triethoxy(octyl)silane *In the range of water solubility not toxic under test conditions.*

Toxicity to Aquatic Plants

Product: *No data available.*

Toxicity to microorganisms

Product: *No data available.*

Toxicity to terrestrial organisms

Product: *No data available.*

Persistence and Degradability**Biodegradation**

Product: *No data available.*

BOD/COD Ratio

Product: *No data available.*

Bioaccumulative potential**Bioconcentration Factor (BCF)**

Product: *No data available.*

Partition Coefficient n-octanol / water (log Kow)

Product: *No data available.*

Components:

Triethoxy(octyl)silane *Log Kow: 6.41 (OECD 117)*

2-diethylaminoethanol *Log Kow: 0.46 calculated*

Mobility in soil:

Product *No data available.*

Other adverse effects:**Other hazards**

Product: *An Expert Judgment stated that no classification is necessary based on present knowledge.*

Additional Information: *No ecotoxicological data is available for this product.*

Disposal methods: *Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.*

Contaminated Packaging: *Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous. Other countries: observe the national regulations.*

14. TRANSPORT INFORMATION

ADG *Not regulated as a dangerous good*

International Regulations

UNRTDG *Not regulated as a dangerous good*

IATA-DGR *Not regulated as a dangerous good*
Remarks: *Not hazardous freight in air traffic (ICAO-TI / IATA-DGR).*

IMDG-Code *Not regulated as a dangerous good*

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation Applicable to Substances and Mixtures

EU Regulations:

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, controlled substances: None or none in regulated amounts (based on current knowledge of the product composition).

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, new substances: None or none in regulated amounts (based on current knowledge of the product composition).

REGULATION (EC) No. 1907/2006 (REACH), Annex XIV - List of Substances Subject to Authorization: None or none in regulated amounts (based on current knowledge of the product composition).

Regulation (EU) No. 2019/1021 on persistent organic pollutants (recast), amended: None or none in regulated amounts (based on current knowledge of the product composition).

Regulation (EC) No. 649/2012 on the export and import of hazardous chemicals, Annex I, Part 1, amended: None or none in regulated amounts (based on current knowledge of the product composition).

Regulation (EC) No. 649/2012 on the export and import of hazardous chemicals, Annex I, Part 2, amended: None or none in regulated amounts (based on current knowledge of the product composition).

Regulation (EC) No. 649/2012 on the export and import of hazardous chemicals, Annex I, Part 3, amended: None or none in regulated amounts (based on current knowledge of the product composition).

Regulation (EC) No. 649/2012 on the export and import of hazardous chemicals, Annex V, amended: None or none in regulated amounts (based on current knowledge of the product composition).

EU REACH Candidate List of Substances of Very High Concern (SVHC): None or none in regulated amounts (based on current knowledge of the product composition)

Regulation (EC) No. 1907/2006, Annex XVII. Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, preparations, and articles: None or none in regulated amounts (based on current knowledge of the product composition).

Directive 2012/18/EU (SEVESO III) on the control of major accident hazards involving dangerous substances, as amended: Not applicable.

*Regulation (EC) No. 166/2006 establishing the European Pollutant Release and Transfer Register, Annex II:
Pollutants: None or none in regulated amounts (based on current knowledge of the product composition).
Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:
2-Methyl-2H-isothiazol-3-one CAS No. 2682-20-4 ≥ 0.0015 - $< 0.01\%$
2-diethylaminoethanol Cas No. 100-37-8 0., 1- 1,0 %*

Chemical Safety Assessment:

A chemical safety assessment is not required for this product.

International regulations

Montreal protocol	<i>Not applicable</i>
Stockholm convention	<i>Not applicable</i>
Rotterdam convention	<i>Not applicable</i>
Kyoto protocol	<i>Not applicable</i>

16. OTHER INFORMATION

Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative.

Complete texts of hazard categories and phrases:

Skin Irrit. 2, H315 - Skin Irritation Category 2, H315 Causes skin irritation.

Eye Irrit. 2A, H319 - Serious Eye Irritation Category 2A, H319 Causes serious eye irritation.

Skin Sens. 2 H317 - Skin Sensitization Category 2, H317 May cause an allergic skin reaction.

Other information:

This safety data sheet summarizes the best knowledge we have at the time of issuing this safety data sheet about the health and safety risks of the product, and in particular about the safe handling and use of the product in the workplace. As SL Protection OÜ cannot foresee or control the conditions under which the product is used, each user must use the safety data sheet before using the product to find out how the product must be handled and used at the workplace.

If the user requires further explanation or additional information about the product, they should contact our company. Our liability regarding the sold product is defined by the standard terms and conditions, a copy of which has been sent to our customers and is also available on request.

Further Information: *No data available.*

Revision date 2024

Contact person / technical support contact:

SL Protection OÜ

Phone: (+372) 55666174

E-mail: info@slprotection.eu

Limitation of liability

For general safety and handling information, please contact SL Protection OÜ. This information is based on our experiences and best knowledge. There is no guarantee for any recommendations or advice. We are not responsible for the completeness or accuracy of this information.