

VINCENTS POLYLINE LTD

PRODUCT SAFETY DATA SHEET/DETAILS OF THE CHEMICAL OR PRODUCT in accordance with COMMISSION REGULATION (EU) 2020/878, from 18 June 2020

Date: 20.07.2023

R5 Rust converter

Version No. 2.0

Print date: 11.04.2025

1. IDENTIFICATION OF SUBSTANCE/MIX AND ENTREPRENEURSHIP/COMPANY

- 1.1. Product identifier:** **R5 Rust converter**
UFI: AQXF-006R-J00W-DHVH=
- 1.2. Identified usage purpose of substance or mixture, and non-recommended usage:** Solution intended for treating rusted metal parts
- 1.3. Information of safety data sheet provider**
- 1.3.1. Manufacturer/importer: Ltd Vincents Polyline
- 1.1.1. Company registry number: 40003358071
- 1.3.2. Full address: 29 Cīruļu Street, Kalngale,
Carnikavas parish, Adazu county, LV-2163, Latvia
- Phone: +371-67903272
- E-mail: polyline@polyline.vincents.lv
- 1.4. Emergency phone numbers:** Ambulance: 113
State Fire and Rescue Service: 112
Toxicology and sepsis clinics Poisoning and Drug Information
Centre: +371-67042473 (works 24 hours a day)

2. HAZARD IDENTIFICATION

2.1. Classification of substance or mixture

According to (EC) Regulation
No 1272/2008:

Skin Corr.1; H314.
Eye Dam. 1; H318.

2.2. Label element

GHS pictograms:



Signal word:

Dangerous

Hazard statement:

H314 – Causes severe skin burns and eye damage
H318 – Causes serious eye damage

Precautionary statement:

Prevention:
P102 – Keep out of reach of children

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P260 – Do not inhale vapors/fumes/mist
P264 – Wash hands thoroughly after handling
P280 – Wear protective gloves/eye protection/face protection
Response:
P301+P330+P331 – IF SWALLOWED: rinse mouth. DO NOT induce vomiting
P303+P361+P353 – IF ON SKIN: remove all contaminated clothing. Rinse skin with water/shower
P363 - Wash contaminated clothing before reuse
P304+P340 – IF INHALED: move the person to fresh air and keep them comfortable for breathing
P310 – Immediately call a POISON CENTER or doctor
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 – Contact a POISON CENTER or doctor if you feel unwell
P390 - Absorb spillage to prevent material damage
Storage:
P405 – Store locked up
Disposal:
P501 – Dispose of contents/container according to national legislation

2.3. Other hazards:

The product does not contain PBT or vPvB substances.
Endocrine-disrupting properties: None known.

3. COMPOSITION/COMPONENT PART INFORMATION

3.2. Mixtures

Chemical characteristics:

Mixture

Hazardous components of the mixture:

Chemical name	CAS No. / EC No. / REACH Registration No.	Classification (REGULATION (EC) No. 1272/2008)	Concentration, %
Isopropanol Propane-2-ol	67-63-0/ 200-661-7/	Dangerous   Flam. Liq. 2; H225 Eye Irrit. 2, H319 STOT SE 3; H336	≤ 5,0

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Sulfuric acid	7664-93-9/ 231-639-5/	Dangerous  Skin Corr. 1A; H314	≤ 2,0
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4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	If the person is unconscious, move them to fresh air, and if breathing stops, perform artificial respiration. Consult a doctor
Skin contact:	Immediately wash the skin with plenty of water. Wash contaminated clothing before reusing
Eye contact:	Immediately rinse eyes with plenty of water for 15 minutes. If necessary, seek medical attention
Ingestion:	Immediately seek medical attention. Do not induce vomiting

4.2. The most important symptoms and effects – acute and delayed

Symptoms:	The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11
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4.3. Indication of needed immediate medical attention and special treatment

Treatment:	Provide symptomatic treatment (cleansing, maintaining body functions)
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5. FIRE-FIGHTING MEASURES

5.1. Fire-fighting equipment

Suitable extinguishing media:	Use foam, water stream, CO ₂ , fire extinguishers
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5.2. Special hazards arising from the substance or mixture

Special hazards during fire:	In a fire, dangerous gases and vapors may form – sulfur and carbon oxides
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5.3. Suggestions to fire-fighters

Special protective equipment: For firefighter safety, a respirator with a full face mask and independent air supply should be worn

Additional information: Use all personal protective equipment while fighting the fire

6. IN CASE OF ACCIDENTAL SPILLAGE

6.1. Personal precautions, protective equipment and procedures in emergency situations: Wear appropriate personal protective equipment as outlined in section 8. Ensure proper ventilation

For people that haven't received training in emergency situations: Do not take any actions without any appropriate training that may cause any personal injury

Emergency aid personnel: Wear protective equipment. Ensure sufficient ventilation

6.2. Environmental safety measures: Prevent product spillage in sewage, water systems or soil, and in case of water system contamination reach out to the relevant authorities

6.3. Methods for containment and cleaning up: Absorb with an inert absorbent material and handle as hazardous waste. Store in appropriate sealed containers for further disposal

6.4. Reference to other sections: Personal protection in section 8. Elimination of substance or packaging in section 13

7. USE AND STORAGE

7.1. Precautions for safe handling: Information for personnel about hygiene measures of personal protection in section 8

Advice for safe handling: Use in well-ventilated areas. Avoid inhaling vapors. In areas where product leakage may occur, ensure facilities are available for hand and eye washing. Wash hands thoroughly during breaks and after work

Recommendations for fire and explosion protection measures: Protect from ignition sources and heat. Burning or heating may release irritating and toxic gases

7.2. Safe environment for storage, as well as incompatible type: Store in tightly sealed original containers. Storage temperature: +5 to +30 °C. Do not allow the product to freeze. Shelf life: one year from the manufacturing date

7.3. Specifically intended use for: In addition to the uses mentioned in Section 1.2, other specific uses are not defined

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters:

Applied occupational exposure limit values:

For the mixture (aqueous solution of substances) there is no determination

Applied occupational exposure limit values for hazardous components:

Component	CAS No.	Value	Control Parameters	Source
Sulfuric acid	7664-93-9	TWA	0,05 mg/m ³	Europe. Commission Directive 2009/161/EC implementing Council Directive 98/24/EC, establishing the third list of indicative occupational exposure limit values and amending Commission Directive 2000/39/EC
	Notes	Indicative When selecting an appropriate exposure monitoring model, the potential limitations and effects caused by the presence of other sulfur components should be considered. Mist is defined as the thoracic fraction		
		AER 8 h	0,05 mg/m ³	Occupational health and safety requirements for chemical exposure in workplaces
Propane-2-ol	67-63-0	AER 8 h	350 mg/m ³	Occupational health and safety requirements for chemical exposure in workplaces
		AER short-term	600 mg/m ³	Occupational health and safety requirements for chemical exposure in workplaces

8.2. Exposure control

Appropriate technical control:

Follow good industrial hygiene and safety practices. Ensure good ventilation and use personal protective equipment. Also, see Section 7

Personal protection equipment

Breathing protection:

Use a respirator with the appropriate filter. Use respirators and accessories that are tested and approved by NIOSH (USA) or CEN (EU)

Skin protection:

Arm protection:

Work with gloves. Gloves should be checked before use. Use proper glove removal techniques (without touching the outside of the gloves) to avoid contact with the product. After use, dispose of contaminated gloves in accordance with applicable regulations and good laboratory practices. Wash and dry hands

Body protection:

Work protective clothing and PVC or rubber shoes, apron. The type of protective equipment should be selected based on the

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	concentration and the amount of the hazardous substance at the specific workplace
Eye/face protection:	Tightly fitting safety goggles. Use eye protection accessories that are tested and approved by NIOSH (USA) or EN 166 (EU)
Hygiene measures:	Avoid contact with the product on skin and eyes. Do not eat, drink, or smoke during work hours. Wash contaminated clothing before reusing
Environmental risk assessment:	Do not spill product in groundwater or surface waters. Check sections 6. and 12

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

9.1. Information of basic physical and chemical characteristics

Appearance:	
State:	Liquid
Color:	Brown
Odor:	Sharp, specific
Odor threshold:	No information available
pH:	< 2,0
Melting/freezing point:	Not determined
Range of boiling point and boiling temperature:	Not determined
Flash temperature:	Not classified. The substance does not support combustion according to transport regulations
Evaporation rate:	Not determined
Flammability (other substances, gases)	Not applicable
Highest/lowest flammability and explosion point:	Not determined
Vapor pressure:	Not determined
Vapor density:	Not classified
Density:	1,04 – 1,07 g/cm ³ (20 °C)

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Solubility:	Soluble in water
Partition coefficient (n-octanol/water):	N.a.
Self-ignition temperature:	Not determined
Degradation temperature:	N.a.
Viscosity:	Water
Explosive hazard:	Not dangerous
Oxidation characteristics:	N.a.

9.2. Other information

Maximum explosion upper pressure:	Not applicable
Minimum ignition energy:	Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity	Data not available
10.2. Chemical stability	Stable under recommended storage conditions
10.3. Possibility of dangerous reaction:	Data not available
10.4. Circumstances, which should be avoided:	Strong oxidizers, reducers
10.5. Incompatible material:	Bases, organic materials, metals
10.6. Dangerous products of degradation:	Hazardous decomposition products formed under fire conditions – sulfur and carbon oxides

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity:	Sulfuric Acid CAS No. 7664-93-9 LD50 Oral – rat – male and female– 2,140 mg/kg Notes: (ECHA) LC50 Inhalation – mouse – male and female – 4h – 0,85 mg/l
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(OECD Test Guideline 403)

Corrosive/Irritant to skin:	Skin – rabbit Result: Extremely corrosive and destructive to tissue. (IUCRID)
Causes eye damage/irritation:	Causes serious eye damage
Respiratory or skin sensitization:	Data not available
Stem cell mutation:	Ames test (Salmonella typhimurium) Result: Negative (HSDB)
Carcinogenicity:	IARC: None of the components of this product, at levels greater than or equal to 0.1%, are identified by IARC as a potential, probable, or confirmed human carcinogen
Toxic impact on specific organ, single exposure:	Data not available
Toxic impact on specific organ, repeated exposure:	Data not available
Risk of inhalation:	

11.2. Information on other hazards

The product does not contain PBT and vPvB substances.
Endocrine disrupting properties: Not known

12. ENVIRONMENTAL INFORMATION

12.1. Toxicity

Toxicity of water environment:	Sulfuric acid CAS No. 7664-93-9 Fish: Static test LC50 – <i>Lepomis macrochirus</i> (Bluegill Sunfish) - >16 - <28 mg/l – 96h (ECHA) Invertebrates: Static test EC50 – <i>Daphnia magna</i> (Water flea) - > 100 mg/l – 48 h (OECD Test Guidelines 202) Algae: Static test ErC50 – <i>Desmodesmus subspicatus</i> (Green algae) - > 100 mg/l – 72h (OECD Test Guidelines 201)
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12.2. Sustainability and degradation

Biodegradability:	Biodegradable
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12.3. Potential bioaccumulation

Data not available

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12.4. Mobility in soil:

Distribution between environmental sectors: N.a.

12.5. PBT and vPvB expertise results

Assessment: This mixture is not considered persistent, bioaccumulative, and toxic (PBT)
This mixture is not considered very persistent, very bioaccumulative (vPvB)

12.6. Endocrine-disrupting properties:

The mixture does not contain substances with endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other negative effect and additional information

The harmful effect is caused by a pH deviation. Neutralization is possible in wastewater treatment facilities

13. CONSIDERATIONS REGARDING MANAGEMENT

13.1. Methods of processing considerations

Products: Offer surplus and non-recyclable solutions to a licensed waste disposal company. Waste materials must be disposed of in accordance with the Waste Directive 2008/98/EC, as well as other national and local regulations. Chemicals should be left in their original containers. Do not mix with other waste

Packaging: Do not reuse empty containers. Dispose of them as special waste according to local and national regulations

14. TRANSPORT INFORMATION

14.1. UN number: Not classified

14.2. UN shipping name: Not classified

14.3. Transport hazard class(-es): Not classified

14.4. Packaging group: Not classified

14.5. Environmental risks: Not classified

14.6. Special precautions for users: Not classified

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: Bulk transport is not allowed

15. LEGISLATION INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for substances or mixtures::

The safety data sheet is developed in accordance with Commission Regulation (EC) No. 830/2015.

Labeling and classification are developed in accordance with European Parliament and Council Regulation (EC) No. 1272/2008 (December 16, 2008) on the classification, labeling, and packaging of substances and mixtures, as well as European Parliament and Council Regulation (EC) No. 1907/2006 (REACH). European Parliament and Council Regulation (EU) No. 528/2012 (May 22, 2012) on the placing of biocidal products on the market and their use, and Cabinet Regulation No. 628 (August 27, 2013) on the requirements for activities involving biocides.

In Latvia, hazardous waste management is carried out in accordance with the Waste Management Law of October 28, 2010, and the amendments to the Waste Management Law of December 16, 2010, Cabinet Regulation No. 484 (June 21, 2011) on the accounting, identification, storage, packaging, labeling, and transport tracking of hazardous waste, and Cabinet Regulation No. 795 (December 22, 2015) on the accounting of chemical substances and mixtures and the database, as well as Cabinet Regulation No. 302 (April 19, 2011) on the waste classification and characteristics that make waste hazardous.

Transportation information is developed in accordance with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), applicable from January 1, 2011, in accordance with the Convention on International Railway Transport Annex B, Appendix 1 (in force since January 1, 2011).

The information is compiled considering the Cabinet Regulation No. 325 (May 15, 2007) on "Occupational Safety Requirements when Handling Chemical Substances in the Workplace", Regulation (EC) No. 2009/161 establishing the third list of permissible indicative exposure limits in the workplace, amending Commission Directive 2000/39/EC, Council Directive 98/24/EC (April 7, 1998) on the protection of workers' health and safety from risks related to chemicals at work, Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, and Regulation (EC) No. 850/2004 on persistent organic pollutants.

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15.2. Evaluation of chemical safety:

The safety assessment has been conducted for individual components of the mixture. The safety assessment of the mixture was carried out based on the concentration of components in the finished product (using a calculation method) and literature data

16. OTHER INFORMATION

16.1. Not otherwise specified substance hazards:

Acronyms: 67/548/EEC = Directive of Hazardous Substances. 1999/45/EC = Directive of Dangerous Preparations. EC Regulation No 1272/2008 = Regulation for substance and mixture classification, marking and packaging. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Goods Code. RID = agreement for carriage of dangerous goods by rail. ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road. TWA = time-weighted average. STEL = short-term exposure limit values

AER – Exposure action rate, 8h; LC₅₀ – Median lethal concentration; LD₅₀ – Median lethal dose, EC₅₀ – Median effective concentration, vPvB – very persistent and very bioaccumulative; PBT – persistent, bioaccumulative and toxic

The information provided in this safety data sheet represents all available information at the time of publication. The available information is brought only to ensure safety measures, product use, recycling, storage, transportation and utilization, it is not a quality guarantee or quality certificate for the previously mentioned product processes, as they are not under our supervision. Information reflects only the mentioned product, under no circumstances would it reflect the product when used with different material.