

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification RUST CLEANER UFI: VT11-90MH-200D-HMC5

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

Application of the substance / the mixture:

Rust converter, can also be used as an anti-corrosion agent.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

ul. Łódzka 3 42-240 Rudniki k. Częstochowy, PL

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

1.4. Emergency telephone number

+48 34 322 28 77 (8.00 -15.00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture.

Classification according to the regulation (EC) no 1272/2008:

Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412

For the Explanation of hazard statements refer to section 16.

2.2. Label elements

Classification according to the regulation (EC) no 1272/2008: Hazardous components to be listed on the label Zinc nitrate Nitric acid

Pictograms:



Signal word: Danger

Hazard statements:

H290	May be corrosive to metals.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long-lasting effects.

Precautionary statements:

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
	Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P332 +313	If skin irritation occurs: Get medical advice/attention.
P501	Dispose of the contents in accordance with local/regional/national/international regulations.

2.3. Other hazards

The substances in the mixture do not meet the criteria for classification as PBT or vPvB in accordance with Annex XIII to the REACH Regulation.

The product does not contain any substances (> 0.1%) with endocrine disrupting properties for non-target organisms as none of its components meet the relevant criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Tel.: +48 34 329 45 03 Fax: +48 34 320 12 16 Registration number: 000029202



3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous components	Classification	H phrases	Quantity
propan-2-ol; isopropyl	CAS no: 67-63-0	Flam. Liq. 2, Eye Irrit. 2, STOT	10 - < 12 %
alcohol; isopropanol	EC no: 200-661-7	SE 3; H225 H319 H336	
	Index no: 603-117-00-0		
	REACH: 01-2119457558-25		
1-ethoxypropan-2-ol;	CAS no: 04/02/1569	Flam. Liq. 3, STOT SE 3; H226	3 - < 5 %
2PG1EE; 1-ethoxy-2-	EC no: 216-374-5	H336	
propanol; propylene glycol	Index no: 603-177-00-8		
monoethyl ether	REACH: 01-2119462792-32		
Zinc nitrate	CAS no: 7779-88-6	Ox. Sol. 2, Acute Tox. 4, Skin	3 - < 5 %
	EC no: 231-943-8	Irrit. 2, Eye Dam. 1, STOT SE 3,	
	Index no: -	Aquatic Acute 1, Aquatic Chronic	
	REACH:-	2; H272 H302 H315 H318 H335	
		H400 H411	
phosphoric acid;	CAS no: 7664-38-2	Met. Corr. 1, Skin Corr. 1B;	< 1 %
orthophosphoric acid	EC no: 231-633-2	H290 H314	
	Index no: 015-011-00-6		
	REACH: 01-2119485924-24		
Nitric acid	CAS no: 7697-37-2	Ox. Liq. 3, Met. Corr. 1, Acute	0.5 - < 1 %
	EC no: 231-714-2	Tox. 3, Skin Corr. 1A; H272	
	Index no: 007-030-00-3	H290 H331 H314 EUH071	
	REACH: 01-2119487297-23		
Zinc bis(dihydrogen	CAS no: 13598-37-3	Acute Tox. 4, Aquatic Acute 1,	0.5 - < 1 %
phosphate)	EC no: 237-067-2	Aquatic Chronic 2; H302 H400	
	Index no: -	H411	
	REACH: -		

Full text of H and EUH phrases is given in section 16.

Specific concentration limit, M and ATE factors

CAS No. EC No.	Chemical Name	Specific concentration limit, M and ATE factors	Quantity
67-63-0 200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	skin: LD50 => 5000 mg/kg; oral: LD50= 5840 mg/kg	10 - < 12 %
04/02/1569 216-374-5	1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2- propanol; propylene glycol monoethyl ether	inhalation: LC50 = (> 9,59 LD0) mg/l (vapours); skin: LD50 => 2000 mg/kg; oral: LD50= > 2000 mg/kg	3 - < 5 %
7779-88-6 231-943-8	Zinc nitrate	oral: ATE= 500 mg/kg	3 - < 5 %
7664-38-2 231-633-2	phosphoric acid; orthophosphoric acid	oral: LD50= 2600 mg/kg Skin Corr. 1B; H314: >= 25- 100 Skin Irrit. 2; H315: >= 10 - <25 Eye Irrit. 2; H319: >= 10 - <25	< 1 %
7697-37-2 231-714-2	Nitric acid	inhalation: ATE 2.65 mg/l (vapours); inhalation: LC50 = 2500 ppm (gases) Ox. Liq. 3; H272: >= 65- 100 Skin Corr. 1A; H314: >= 20- 100 Skin Corr. 1B; H314: >= 5 - <20	0.5 - < 1 %
13598-37-3 237-067-2	Zinc bis (dihydrogen phosphate)	oral: ATE= 500 mg/kg	0.5 - < 1 %

Additional information

The product does not contain SVHC substances > 0.1% listed in Regulation (EC) No. 1907/2006 §59 (REACH)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Remove contaminated clothing, wash it before reuse.

In case of Inhalation: In the event of inhalation poisoning, remove the injured person to fresh air and provide rest conditions. If respiratory irritation occurs, call a doctor.

After skin contact: Carefully wash skin with plenty of water and soap. Consult a dermatologist.

After contact with eyes: Rinse cautiously with water for several minutes. If any discomfort occurs, consult an ophthalmologist.



After ingestion: Rinse your mouth thoroughly with water. Give plenty of water to drink in small portions (dilution effect). Do NOT induce vomiting. If symptoms occur or if in doubt, seek medical advice.

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

No further relevant data available.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Use extinguishing measures appropriate to the surrounding. Unsuitable extinguishing media: Full jet of water.

5.2. Special hazards arising from the substance or mixture

In a fire, the following can be produced: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx).

5.3. Advice for fire fighters

In case of fire: Use independent respiratory protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

General information: For information on safe handling see section 7

For personnel non taking part in emergency procedures

Use personal protective measures (see section 8 of the).

For personnel taking part in emergency procedures

No special measures are required

6.2. Environmental precautions

Avoid leakage of the product into the environment.

6.3. Methods and materials for containment and cleaning up

For encapsulation purposes

Must be collected using liquid-binding materials (sand, diatomaceous earth, universal binding agent). Treat collected material according to the instructions in section 13.

Cleaning

Clean dirty objects and the floor thoroughly, taking into account environmental protection regulations.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See section 13 for information on disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Tips for safe handling of the substance
Wear suitable protective clothes. See section 8.
Tips in the event of fire and explosion
Generally accepted fire protection preventive measures.
Recommendations on general occupational hygiene
Always close the container carefully after taking the product. You must not eat, drink or smoke in the workplace. Wash hands before each break and at the end of work.
Additional information
Hygiene and protection measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers Keep containers tightly closed and in a cool, well-ventilated area. Information about common storage Do not store together with: Explosive substances. Flammable solids (oxidizing). Flammable liquids (oxidizing). Radioactive substances. Infectious substances. Food and feed. Further information about storage conditions



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Recommended storage temperature: 5-40°C. Protect against: frost, UV radiation/sunlight, heat.

7.3. Special end use (s) See section 1.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

Control parameters

CAS No.	Chemical Name	mg/m³	fibers/cm ³	Category	Туре
7697-37-2	Nitric acid (V)	1.4		NDS (8h)	
		2.6		NDSCh (15 min.)	
7664-38-2	Phosphoric acid (V)	1		NDS (8h)	
		2		NDSCh (15 min)	
67-63-0	propan-2-ol	900		NDS (8h)	
		1200		NDSCh (15 min.)	
57-55-6	Propane-1,2-diol - vapor and inhalable	100		NDS (8h)	
	fraction	-		NDSCh (15 min.)	

DNEL / DMEL values

67-63-0 propan-2-ol; isopropyl alcohol; isopropanol

Inhalation	DNEL Long-term systemic	500 mg/m³	(Workers)
Inhalation	DNEL Long-term systemic	89 mg/m³	(Consumer)
Dermal	DNEL Long-term systemic	888 mg/kg bw/day	(Workers)
Oral	DNEL Long-term systemic	26 mg/kg bw/day	(Consumer)
Dermal	DNEL Long-term systemic	319 mg/kg / bw/day	(Consumer)

57-55-6 Propylene glycol

Inhalation	DNEL Long-term systemic	168 mg/m ³	(Workers)
Inhalation	DNEL Long-term local	10 mg/m ³	(Workers)
Dermal	DNEL Long-term systemic	213 mg/kg bw/day	(Consumer)
Inhalation	DNEL Long-term systemic	50 mg/ m ³	(Consumer)
Oral	DNEL Long-term systemic	85 mg/kg bw/day	(Consumer)
Inhalation	DNEL Long-term local	10 mg/m ³	(Consumer)

1569-02-4 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propy	lene glycol monoethyl ether

Inhalation Inhalation Dermal Inhalation Inhalation Dermal Oral	DNEL Long-term systemic DNEL Acute systemic DNEL Long-term systemic DNEL Long-term systemic DNEL Acute systemic DNEL Long-term systemic DNEL Long-term systemic	L Long-term systemic106 mg/m³L Acute systemic500 mg/m³L Long-term systemic74 mg/kg bw/dayL Long-term systemic127 mg/m³L Acute systemic300 mg/m³L Long-term systemic44.3 mg/kg bw/dayL Long-term systemic14 mg/kg bw/day	
7664-38-2 r	phosphoric acid; orthophosphoric acid		
Inhalation	DNEL Long-term local	2.93 mg/m ³	(Workers)
Inhalation	DNEL Long-term local	0.73 mg/m ³	(Consumer)
7697-37-2	Nitric acid		
Inhalation	DNEL Long-term local	2.6 mg/m ³	(Workers)
Inhalation	DNEL Long-term local DNEL Acute local	1.3 mg/m ³ 1.3 mg/m ³	(Consumer) (Consumer)
PNEC values	5: non 2 als isonrousi alsobals isonrouand		
Fresh water	140.9 mg/l		
Fresh water ((intermittent release)	140.9 mg/l	

Fresh water (intermittent release)	140.9 mg/l
Sea water	140.9 mg/l
fresh water sediment	552 mg/kg
Sea water sediment	552 mg/kg
Secondary poisoning	160 mg/kg
Microorganisms during sewage treatment	2251 mg/l
Soil	28 mg/kg

57-55-6 Propylene glycol

Fresh water 260 mg/l



1250 mg/l

1.97 mg/kg

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Fresh water (intermittent release)	183 mg/l
Sea water	26 mg/l
Sea water (intermittent release)	183 mg/l
Fresh water sediment	572 mg/kg
Sea water sediment	57.2 mg/kg
Microorganisms during sewage treatment	20000 mg/l
Soil	50 mg/kg
1569-02-4 1-ethoxypropan-2-ol; 2PG1EE; 1-eth	oxy-2-propanol; propylene glycol monoethyl
Fresh water	10 mg/l
Fresh water (intermittent release)	19 mg/l
Sea water	1 mg/l
Fresh water sediment	37.6 mg/kg
Sea water sediment	3.76 mg/kg
Secondary poisoning	142 ma/ka

8.2. Exposure controls

Soil

Technical control measures:

Microorganisms during sewage treatment

Technical measures and the use of appropriate work processes are more important than the use of personal protective equipment.

It is necessary to ensure proper airing of rooms and ventilation.

Personal protective measures such as individual protective equipment

Eye or face protection:

Wear protective goggles; goggles protecting against chemicals according to EN 166.

Hands protection:

Wear suitable protective gloves.
Suitable material:
FKM (Fluorinated rubber). - Glove material thickness: 0,4 mm
Penetration time: >= 8 h
Butyl rubber. - Glove material thickness: 0,5 mm
Penetration time: >= 8 h
CR (Polychloroprene, Chloroprene rubber, Polychloroprene). - Glove material thickness: 0,5 mm
Penetration time: >= 4 h
NBR (Nitrile rubber). - Glove material thickness: 0,35 mm
Penetration time: >= 8 h
The protective gloves selected must meet the specifications of Directive 2016/425/EU and the derived standard EN 374.
Check the gloves for tightness before use. If you intend to reuse the gloves, clean them before removing them and store them in a place with good air circulation.

Skin protection:

Proper protective clothing. Lab coat.

The minimum standards for protective measures when handling substances in the workplace are listed in TRG S 500 (D).

Respiratory protection:

When used properly and under normal conditions, respiratory protection is not necessary.

Respiratory protection is required when:

Exceeding the limit value

- Insufficient ventilation and formation of aerosols, mists.

Proper respiratory protection: particle filter device (EN 143). Type: P1-3

The class of the respiratory protection filter must be adapted to the maximum concentration of harmful substances

(gas/vapour/aerosol/particles) that may be generated when handling the product. If the concentration is exceeded, an insulated breathing apparatus must be used!

Environmental control:

Protect against uncontrolled release into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Colour: Smell: Odour threshold: **Change in condition** Melting point/freezing point: Boiling point or initial boiling point and boiling range: liquid dark brown/black characteristic Not determined.

Not determined.

100°C

ether



not specified

not specified not specified Page: 6 of 11

Sublimation point Softening point Pour point Flash point **Flammability of materials** Solid/liquid **Explosive properties** Explosion limits:

Autoignition temperature

solid: das: Breakdown point: pH (at 20°C): Dynamic viscosity: Kinematic viscosity (at 20°C): Flow time Solubility in water: Solubility in other solvents: Dissolution rate: n-octanol/water partition coefficient: Dispersion stability: Vapour pressure: Density: Bulk density: Relative vapour density: Particle characteristics:

9.2. Other information

Information with regard to physical hazard classes Continuous flammability: Oxidizing properties Other safety features Solvent separation test: Solvent content: Solids content: Relative evaporation rate: Additional information No further relevant data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant data available.

10.2. Chemical stability

The product is chemically stable under recommended storage and use conditions and at the recommended temperature.

10.3. Possibility of hazardous reactions

See section 10.5.

10.4. Conditions to be avoided

Protect against: UV radiation/sunlight, heat.

10.5. Incompatible materials:

Agents to be avoided: strong oxidizing agents, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used as intended.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Toxicokinetics, metabolism and distribution No data. Acute toxicity

Based on available data the classification criteria are not met.

CAS NO.					
	Route of exposure	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 5840 mg/kg	Rat	ECHA Dossier	

not specified not specified none bottom: not specified top: not specified not applicable. not applicable not specified 1.4-2 not determined. 1 mm²/s² not specified soluble not specified not applicable see section 12: Ecological information. not applicable not specified not specified not specified. not specified. not applicable

self-sustaining combustion none

not specified not specified not specified not specified



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	Skin	LD50 >5000 mg/kg	Rabbit	ECHA Dossier	
04/02/1569	1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	Skin	LD50 >2000 mg/kg	Rat	Study report (1985)	EU Method B.3
	airways (4h) vapour	LC50 (> 9,59 LD0)	Rat	Study report (1984)	OECD Guideline 403
		mg/l			
7779-88-6	Zinc nitrate	-			
	oral	ATE 500 mg/kg			
7664-38-2	phosphoric acid; orthophosphoric acid				
	oral	LD50 2600 mg/kg	Rat	ECHA Dossier	
7697-37-2	Nitric acid	-			
	airways vapour	ATE 2,65 mg/l			
	airways (4h) gases	LC50 2500 ppm	Rat	ECHA Dossier	
13598-37-3	Zinc bis(dihydrogen phosphate	e)			
	oral	ATE 500 mg/kg			

Corrosive/irritating effect

Causes skin irritation. Causes serious eve damage. Based on test data: Skin corrosion/irritation: non-corrosive (OECD 431) Skin irritation effect: Irritating product (OECD 439) Eye damage/irritation: Causes serious eye damage. (HET-CAM)

Sensitizing effect

Based on available data, the classification criteria are not met.

Carcinogenicity, mutagenicity, reproductive toxicity

Based on available data, the classification criteria are not met.

propan-2-ol; isopropyl alcohol; isopropanol:

OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative, AllgK267153: ECHA Dossier; OECD

Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative, reference to literature: ECHA Dossier;

There are no indications of carcinogenicity in humans., literature reference: ECHA Dossier;

Reproduction toxicity: Method: OECD Guideline 415 (One-Generation Reproduction Toxicity Study); Specific type: Rat, result: NOAEL = 853 mg/kg; literature reference: ECHA Dossier;

Developmental toxicity/teratogenicity: Method: (oral) OECD Guideline 414 (Prenatal Developmental Toxicity Study); specific type: Rabbit; result: NOAEL = 480 mg/kg; literature reference: ECHA Dossier phosphoric acid; orthophosphoric acid:

in vitro mutagenesis: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) result: negative Harmful effect on reproduction: Method: OECD 422. Specific type: Rat. Exposure time: 52 d. result: NOAEL >= 500 mg/kg b.w./day odniesienie do literatury: literature reference ECHA Dossier

Specific target organ toxicity - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity – repeated exposure

Based on available data, the classification criteria are not met. propan-2-ol; isopropyl alcohol; isopropanol: Chronic inhalation toxicity (Rat): NOAEC = 5000 ppm (OECD 451), literature reference: ECHA Dossier phosphoric acid; orthophosphoric acid: Subchronic oral toxicity: Method: OECD 422. Specific type: Rat. Exposure time: 54 d. result: NOAEL = 250 mg/Kg literature reference: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effect in animal test

No data.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any substances (> 0.1%) with endocrine disrupting properties for non-target organisms as none of its components meet the relevant criteria.

Other information

No data.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity



Toxicity to aquatic life Dose [h] [d] Species Source 67-63-0 propan-2-ol; isopropyl alcohol; isopropanol Acute toxicity to fish LC50 10000 mg/l 96h Pimephales promelas ECHA Dossier Acute toxicity to algae ErC50 1800 mg/l Scenedesmus quadricauda ECHA Dossier Acute toxicity to algae ErC50 >10000 48h Daphnia magna (24) ECHA Dossier 04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether Source Source	Method OECD 203 OECD 202
67-63-0 propan-2-ol; isopropyl alcohol; isopropanol Acute toxicity to fish LC50 10000 mg/l 96h Pimephales promelas ECHA Dossier Acute toxicity to algae ErC50 1800 mg/l Scenedesmus quadricauda ECHA Dossier Acute toxicity to algae ErC50 >10000 48h Daphnia magna (24) ECHA Dossier 04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether ECHA Dossier	OECD 203
Acute toxicity to fish LC50 10000 mg/l 96h Pimephales promelas ECHA Dossier Acute toxicity to algae ErC50 1800 mg/l Scenedesmus quadricauda ECHA Dossier Acute toxicity to algae ErC50 >10000 48h Daphnia magna (24) ECHA Dossier 04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether ECHA Dossier	OECD 203
Acute toxicity to algae ErC50 1800 mg/l Scenedesmus quadricauda ECHA Dossier Acute toxicity to crustaceans EC50 >10000 mg/l 48h Daphnia magna (24) ECHA Dossier 04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether ECHA Dossier	OECD 202
Acute toxicity to crustaceans EC50 >10000 mg/l 48h Daphnia magna (24) ECHA Dossier 04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	OECD 202
04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	other: DIN 38
	other: DIN 38
Acute toxicity to fishLC50 >4600 <96hLeuciscus idusStudy report10000 mg/l10000 mg/l10000 mg/l10000 mg/l10000 mg/l10000 mg/l	412, part L15
Acute toxicity to algae ErC50 >100 mg/l 72h Desmodesmus subspicatus REACH Document Registration Document Document Document	OECD Guideline 201
Acute toxicity to crustaceansEC50 21100- 25900 mg/l48hDaphnia magnaStudy report (1981)	other: Environmental Sciences Research T
Toxicity to fishNOEC >260 mg/l21dOncorhynchus mykiss (rainbow trout)Study report (1993)	OECD Guideline 204
Toxicity for algae NOEC >100 mg/l 3d Desmodesmus subspicatus ECHA Dossier	OECD 201
Toxicity to crustaceans NOEC >180 mg/l 21d Daphnia magna REACH Registration Dossier	other: "Daphnia sp., Acute Immobilisatio
Acute toxicity to bacteria(EC50 >4600 mg/l)Pseudomonas putidaECHA Dossier	
7664-38-2 phosphoric acid; orthophosphoric acid	
Acute toxicity to algae ErC50 >100 mg/l 72h Desmodesmus subspicatus ECHA Dossier	
Acute toxicity to crustaceans EC50 >100 mg/l 48h Daphnia magna ECHA Dossier	
7697-37-2 Nitric acid	
Acute toxicity to crustaceans EC50 2.5 mg/l 48h Ceriodaphnia spec ECHA Dossier	

12.2. Persistence and degradability

Method value: d Source Evaluation Image: Imag	CAS No.	Chemical Name					
Evaluation Image: Constraint of the		Method	value:	d	Source		
67-63-0 propan-2-ol; isopropyl alcohol; isopropanol EU Method C.5/ EU Method C.6 53% Easily biodegradable (according to the criteria of the OECD)		Evaluation					
EU Method C.5/ EU Method C.6 53% 5 ECHA Dossier Easily biodegradable (according to the criteria of the OECD) 5 5 5	67-63-0	propan-2-ol; isopropyl alcohol; isopropan	propan-2-ol; isopropyl alcohol; isopropanol				
Easily biodegradable (according to the criteria of the OECD)		EU Method C.5/ EU Method C.6	53%	5	ECHA Dossier		
		Easily biodegradable (according to the criteria of the OECD)					
04/02/1569 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	04/02/1569	1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether					
OECD Guideline 301 F 78 28 ECHA Dossier		OECD Guideline 301 F	78	28	ECHA Dossier		
Easily biodegradable (according to the criteria of the OECD)		Easily biodegradable (according to the criteria of the OECD)					
OECD Guideline 301 D 68 28 ECHA Dossier		OECD Guideline 301 D	68	28	ECHA Dossier		
Easily biodegradable (according to the criteria of the OECD)		Easily biodegradable (according to the crit	teria of the OECD)				

12.3. Bioaccumulative potential

n-octanol/water partition coefficient

CAS No.	Chemical Name	Log POW
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0.05
04/02/1569	1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	1.46
7697-37-2	Nitric acid	-0.21

12.4. Mobility in soil

No data.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the criteria for classification as PBT or vPvB in accordance with Annex XIII to the REACH Regulation.

The above statement applies to substances contained in the product from 0.1%

12.6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties for non-target organisms as none of its ingredients meet the relevant criteria.

The above statement applies to substances contained in the product from 0.1%.

12.7. Other hazardous effects

No data.



Additional information

Do not discharge into sewage systems or water bodies.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation

National regulations and ordinances must also be observed! For waste disposal, contact the competent registered municipal services. Packaging that has not come into contact with chemicals, is thoroughly emptied and cleaned can be reused. The classification of key waste numbers/waste designations must be carried out in accordance with the regulation on the introduction of the European Waste Catalogue, specific to the industry and process. Proposed list of key concepts for waste designations in accordance with the European Waste Catalogue EWC:

Waste code - product residues / unused product

110198 - WASTES FROM SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS AND FROM HYDROMETALLURGY PROCESSES OF NON-FERROUS METALS; wastes from chemical treatment and surface coating of metals and other materials (e.g. galvanic processes, zinc plating, pickling, phosphating and alkaline degreasing, anodizing); other wastes containing hazardous substances; hazardous waste

Waste code - used product

110198 - WASTES FROM SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS AND FROM HYDROMETALLURGY PROCESSES OF NON-FERROUS METALS; wastes from chemical treatment and surface coating of metals and other materials (e.g. galvanic processes, zinc plating, pickling, phosphating and alkaline degreasing, anodizing); other wastes containing hazardous substances; hazardous waste

Waste code - contaminated packaging:

150110 - PACKAGING WASTE; SORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT SPECIFIED IN OTHER GROUPS; packaging waste (including separately collected municipal packaging waste); packaging containing residues of hazardous substances or contaminated with such substances; hazardous waste

Disposal of contaminated packaging and recommended cleaning agents

Used packaging is treated as a material.

SECTION 14: TRANSPORT INFORMATION

Railway transport (ADR/ RID)

14.1.	UN	number	or	identification	number ID	UN 3264

14.2. UN proper shipping name

 $\label{eq:correction} \mbox{CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid; orthophosphoric acid)$

14.3. Transport hazard class (-es)

14.4. Packaging group

Labels:

Classification code:
Special provisions:
Limited Quantities (LQ):
Quantity shared:
Transport category:
Hazard number:
Tunnel restriction code:

III 8 8 C1

8

274 5 L E1 3 80 E

Inland Water Transport (ADN) 14.1. UN number or identification number ID 14.2. UN proper shipping name

14.3. Transport hazard class (-es) 14.4. Packaging group Labels:

Classification code: Special provisions:



UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid; orthophosphoric acid)

8 III



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RUST CLEANER PROFESSIONAL

Limited Quantities (LQ):	
Quantity shared:	

Sea transport (IMDG) 14.1. UN number or identification number ID 14.2. UN proper shipping name

14.3. Transport hazard class (-es) 14.4. Packaging group

Labels:

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid; orthophosphoric acid) 8

III 8

51 E1



223, 274

F-A, S-B

NO

5 L

E1

III

Marine pollutants: Special provisions: Limited Quantities (LQ): Quantity shared: EmS:

Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or identification number ID 14.2. UN proper shipping name

14.3. Transport hazard class (-es) 14.4. Packaging group Labels:

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid; orthophosphoric acid) 8



Special provisions: Limited Quantity (LQ) (air passenger transport): Passenger LQ: Ouantity shared:	A3 A 1 L Y841 E1	803
IATA-Packing Instructions (Passenger Air Transport) IATA- Maximum quantities (Passenger Air Transport IATA-Packing Instructions (Air Cargo Transport): IATA- Maximum quantities (Air Cargo Transport):):):	852 5 L 856 60L
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS	No	

14.6. Special precautions for user see sections 6 - 8

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU Regulatory Information Restrictions on use (REACH, Annex XVII): Content of volatile organic compounds (VOCs) according to Directive 2010/75/EU: Content of volatile organic compounds (VOCs) according to Directive 2004/42/EC: Data for guidelines 2012/18/EU (SEVESO III):

Entry 3, Entry 40, Entry 75 25.99% 26.19% Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety data sheet according to Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No 2020/878) The mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [CLP]. REACH 1907/2006 annex XVII No. (mixture): 3

National regulations Restrictions in use: Comply with employment restrictions under the Child Protection Act (94/33/EC). Water hazard class (D): 3 - highly hazardous to water

Additional information

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.



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 (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Commission Regulation (EU) 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration Evaluation Authorization and Restriction of Chemicals (REACH).

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) (Official Journal of the European Union of 31.12.2008, No. L 353/1, as amended).

Regulation of the Minister of Labour and Social Policy of 26 September 1997 on general occupational health and safety regulations (consolidated text: Journal of Laws of 2003, No. 169, item 1650, as amended)

Regulation of the Minister of Health of 24 July 2012 on chemical substances, their mixtures, factors or technological processes with carcinogenic or mutagenic effects in the work environment (consolidated text: Journal of Laws of 2016, item 1117)

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment (Journal of Laws of 2014, item 817, as amended)

Regulation of the Minister of Health of 11 June 2012 on the categories of hazardous substances whose packaging is equipped with child-resistant fastenings and a tactile warning of danger (consolidated text: Journal of Laws of 2014, item 1604)

Act of 25 February 2011 on chemical substances and their mixtures (consolidated text: Journal of Laws of 2015, item 1203, as amended)

Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (Journal of Laws of 2015, item 1368)

Act of 28 October 2002 on the road transport of dangerous goods (Journal of Laws No. 199, item 1671, as amended) Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws of 2011, No. 33, item 166). Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical factors in the workplace (consolidated text: Journal of Laws of 2016, item 1488)

15.2. Chemical safety assessment:

A safety assessment was performed for the following substances in this mixture: propan-2-ol; isopropyl alcohol; isopropanol phosphoric acid; orthophosphoric acid Nitric acid

SECTION 16: OTHER INFORMATION

Explanation of abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road). AGW: Arbeitsplatzgrenzwert CAS: Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived no effect level d: day(s) EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European waste catalogue IARC: International Agency for Research on Cancer IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonised System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal Dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect concentration NLP: No-Longer Polymers N/A: not applicable OECD: Organization for Economic Cooperation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Code on the international transport of dangerous goods by rail REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS: Technical rules for hazardous substances UN: United Nations VOC: Volatile Organic Compounds

Classification of mixtures and evaluation method according to Regulation (EC) No. 1272/2008 [CLP]



Classification	Classification procedure:
Met. Corr. 1; H290	Based on test data
Skin Irrit. 2; H315	
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

Explanation of H and EUH statements (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes serious skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes eye irritation.
H331	Toxic if inhaled
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long-lasting effects.
EUH071	Causes respiratory corrosion.

Additional information

Classification according to the regulation (EC) no 1272/2008 [CLP] - Classification procedure: Health hazards: Calculation method Environmental hazards: Calculation method Physical hazards: Based on test data and/or calculated and/or estimated.

The information contained in this safety data sheet is based on our best knowledge at the time of its preparation. It is intended to provide general guidance on the safe handling of the product during its storage, processing, transport and disposal. This information should not be applied to other products. In the event of mixing or processing the product with other substances, the data contained in this sheet cannot be automatically transferred to the newly created mixture without prior evaluation and approval.

The information on hazardous ingredients has been taken from the currently valid safety data sheets provided by sub-suppliers.

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