# SAFETY DATA SHEET



Rust remover liquid

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

#### 1.1 Product identifier

Product name	: Rust remover liquid
UFI	: EFN1-C06U-800M-2X1C
Product code	: 2000085
Color	: Yellowish.
Product type	: Liquid.

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

Identified uses		
Cleaning agent		
Uses advised against	Reason	
Not applicable.		

#### 1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG Königsberger Str. 25, 48157 Münster, Germany phone: +49 251 93220, Fax: +49 251 9322244 email: info@weicon.de, URL: www.weicon.de	
e-mail address of person responsible for this SDS	: msds@weicon.de

#### 1.4 Emergency telephone number

#### National advisory body/Poison Center

Telephone number	: EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333
	(English) TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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id	lentification	
:		
:	Danger	
:	H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H335 - May cause respiratory irritation.	
:	<ul> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P234 - Keep only in original packaging.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P261 - Avoid breathing vapor.</li> </ul>	
:	<ul> <li>P390 - Absorb spillage to prevent material damage.</li> <li>P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON</li> <li>CENTER or doctor. Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.</li> </ul>	
:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.	
:	P501 - Dispose of waste according to applicable legislation.	
:	citric acid glycolic acid orthophosphoric acid	
:	Corrosive to the respiratory tract.	
:	Not applicable.	
:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	
	None known.	

### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

: Mixture

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Rust remover liquid

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
citric acid	REACH #: 01-2119457026-42 EC: 201-069-1 CAS: 77-92-9 Index: 607-750-00-3	≥10 - ≤25	Eye Irrit. 2, H319 STOT SE 3, H335	-	[1] [2]
glycolic acid	EC: 201-180-5 CAS: 79-14-1	≥3 - ≤5	Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 EUH071	ATE [Inhalation (vapours)] = 11 mg/ I	[1]
Phosphoric acid	REACH #: 01-2119485924-24 EC: 231-633-2 CAS: 7664-38-2	≥3 - ≤5	Skin Corr. 1B, H314 Eye Dam. 1, H318	-	[1] [2]
Oxirane, 2-methyl-, polymer with oxirane, mono [2-(6,6-dimethylbicyclo [3.1.1]hept-2-en-2-yl)ethyl] ether	CAS: 174955-61-4	≥1 - ≤3	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 500 mg/kg	[1]
Alcohols, C12-14, ethoxylated propoxylated	CAS: 68439-51-0	≥1 - ≤3	Aquatic Chronic 3, H412	-	[1]
formic acid	REACH #: 01-2119491174-37 EC: 200-579-1 CAS: 64-18-6	<0.1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 EUH071	ATE [Oral] = 730 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

4.1 Description of first aid m	neasures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 4: First aid measures	
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Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the	: In a fire or if heated, a pressure increase will occur and the container may burst.
substance or mixture	

SECTION 5: Firefigh	nting measures
Hazardous combustion products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides</li> </ul>

### 5.3 Advice for firefighters

Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials fo	or c	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

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### **SECTION 7: Handling and storage**

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values					
citric acid	<b>DFG MAC-values list (Germany, 7/2022).</b> PEAK: 4 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: inhalable					
	fraction TWA: 2 mg/m³ 8 hours. Form: inhalable fraction					
	TRGS 900 OEL (Germany, 4/2023). PEAK: 4 mg/m <sup>3</sup> 15 minutes. Form: inhalable fraction					
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction					
Phosphoric acid	DFG MAC-values list (Germany, 7/2022).					
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction					
	PEAK: 4 mg/m³, 4 times per shift, 15 minutes. Form: inhalable					
	fraction TRGS 900 OEL (Germany, 4/2023).					
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: inhalable fraction					
	PEAK: 4 mg/m <sup>3</sup> 15 minutes. Form: inhalable fraction					
formic acid	DFG MAC-values list (Germany, 7/2022).					
	TWA: 5 ppm 8 hours.					
	PEAK: 10 ppm, 4 times per shift, 15 minutes.					
	TWA: 9.5 mg/m³ 8 hours. PEAK: 19 mg/m³, 4 times per shift, 15 minutes.					
	TRGS 900 OEL (Germany, 4/2023).					
	TWA: 9.5 mg/m <sup>3</sup> 8 hours.					
	PEAK: 19 mg/m <sup>3</sup> 15 minutes.					
	TWA: 5 ppm 8 hours.					
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### **SECTION 8: Exposure controls/personal protection**

PEAK: 10 ppm 15 minutes.

**Biological exposure indices** 

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
glycolic acid	DNEL	Long term Oral	0.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.53 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	2.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	2.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	2.6 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	9.2 mg/m³	Workers	Local
	DNEL	Short term Inhalation	9.2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	10.56 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	28.85 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	57.69 mg/ kg bw/day	Workers	Systemic
Phosphoric acid	DNEL	Long term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.36 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m³	Workers	Local
	DNEL	Long term Inhalation	4.57 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	10.7 mg/m³	Workers	Systemic

SECTION 8: Exposure controls/personal protection							
formic acid     DNEL     Long term     3 mg/m³     General     Local       Inhalation     Inhalation     DNEL     DNE						Local	
		DNEL	Long term Inhalation	9.5 mg/m³	Workers	Local	

#### **PNECs**

No PNECs available.

8.2 Exposure controls Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

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The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state	: Liquid.
Color	: Yellowish.
Odor	: Characteristic.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: 100°C (212°F)
Flammability	: Not available.
Lower and upper explosion limit	: Not available.

#### Flash point

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
formic acid	49.5	121.1	DIN EN ISO 13736			
citric acid	100	212				

#### Auto-ignition temperature

Ingredient name		°C	°F	Method
formic acid		434	813.2	
citric acid		1010	1850	
Decomposition temperature	: Not ava	ilable.		
рН	: 1 [Conc	. (% w/w): 100%]		
<b>Viscosity</b> Not available.	: Not ava	ilable.		
Solubility in water	: Not ava	ilable.		

#### Partition coefficient: n-octanol/ : Not applicable.

water

#### Vapor pressure

	Va	Vapor Pressure at 20°C		V	/apor pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
formic acid	32.03522	4.3	EU A.4			
orthophosphoric acid	0.03	0.004				
glycolic acid	0.0031	0.00041	OECD 104			
citric acid	0.000000017	0.000000023				
elative density	: Not a	vailable.	l	I		
ensity	: 1.165	5 to 1.175 g/c	m³			
apor density	: Not available.					
article characteristics						
Median particle size	: Not a	pplicable.				
2.1 Information with reg	gard to physica	I hazard cla	sses			
Explosive properties	: Not a	vailable.				
Oxidizing properties	: Not a	vailable.				

### SECTION 9: Physical and chemical properties

#### 9.2.2 Other safety characteristics

### **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
10.6 Hazardous decomposition products	: Reactive or incompatible with the following materials: oxidizing materials, reducing materials and alkalis.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
citric acid	LD50 Oral	Rat	3 g/kg	-
glycolic acid	LC50 Inhalation Dusts and mists	Rat	3600 mg/m³	4 hours
	LD50 Oral	Rat	1938 mg/kg	-
orthophosphoric acid	LD50 Oral	Rat	1.25 g/kg	-
formic acid	LC50 Inhalation Vapor	Rat	7400 mg/m³	4 hours
	LD50 Oral	Rat	730 mg/kg	-

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Rust remover liquid	25000	N/A	N/A	275.0	N/A
citric acid	3000	N/A	N/A	N/A	N/A
glycolic acid	N/A	N/A	N/A	11	N/A
Oxirane, 2-methyl-, polymer with oxirane, mono[2- (6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl] ether	500	N/A	N/A	N/A	N/A
formic acid	730	N/A	N/A	N/A	0.5

#### Irritation/Corrosion

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### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
citric acid	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	) -
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	) -
	Skin - Moderate irritant	Rabbit	-	0.5 MI	-
glycolic acid	Eyes - Severe irritant	Rabbit	-	2 mg	-
	Skin - Severe irritant	Rabbit	-	0.5 MI	-
formic acid	Eyes - Severe irritant	Rabbit	-	122 mg	-
	Skin - Mild irritant	Rabbit	-	610 mg	-
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
<b>Carcinogenicity</b>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Teratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxicit	<u>y (single exposure)</u>				
Droduct/ing	adiant nama	Cotogony	Bo	uto of	Targat argana

Product/ingredient name	Category	Route of exposure	Target organs
citric acid	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

#### Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Corrosive to the respiratory tract. Causes burns.
Skin contact	: Causes severe burns.
Ingestion	: No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

### **SECTION 11: Toxicological information**

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

#### Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
citric acid	Acute LC50 160000 µg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours
Phosphoric acid	Acute LC50 89 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 60 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
formic acid	Acute EC50 151200 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Larvae	48 hours
	Acute LC50 80000 to 90000 μg/l Marine water	Crustaceans - <i>Carcinus maenas</i> - Adult	48 hours
Conclusion/Summary	: Not available.	•	•

#### 12.2 Persistence and degradability

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#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

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### **SECTION 12: Ecological information**

**Conclusion/Summary** 

: Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
citric acid	-1.8	-	Low
glycolic acid	<0.3	-	Low
formic acid	-2.3	-	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

### European waste catalogue (EWC)

Waste code Waste designation	
13 02 06*	synthetic engine, gear and lubricating oils
Packaging	

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Can	15 01 10* packaging containing residues of or contaminated by hazardous substances		
Special precautions	taken when Empty conta	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Avoid dispersal of rial and runoff and contact with soil, waterways, drains and sewers.	

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### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (glycolic acid, Phosphoric acid)	CORROSIVE LIQUID, N.O.S. (glycolic acid, Phosphoric acid)	CORROSIVE LIQUID, N.O.S. (glycolic acid, Phosphoric acid)	Corrosive liquid, n.o.s. (glycolic acid, Phosphoric acid)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group		111	111	111
14.5 Environmental hazards	No.	No.	No.	No.
Additional informa	tion			

ADR/RID	: <u>Hazard identification number</u> 80 <u>Limited quantity</u> 5 L <u>Special provisions</u> 274 <u>Tunnel code</u> (E) <u>ADR Classification Code:</u> C9
ADN IMDG	<ul> <li>Special provisions 274</li> <li>Emergency schedules F-A, S-B Special provisions 223, 274</li> <li>IMDG Code Segregation group SGG1 - Acids</li> </ul>
ΙΑΤΑ	<ul> <li>Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.</li> <li>Special provisions A3, A803</li> </ul>

- **14.6 Special precautions for user**: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- **14.7 Maritime transport in** : Not available. **bulk according to IMO instruments**

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorization

#### <u>Annex XIV</u>

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

## Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Date of issue/Date of revision

ECTION 15: Regulatory in	nformation		
Product/ingredient name	%	Designation [Usage]	
Rust remover liquid	≥90	3	
Labeling : Not	applicable.		
<u> Other EU regulations</u>			
Industrial emissions : Not (integrated pollution prevention and control) - Air	listed		
Industrial emissions : Not (integrated pollution prevention and control) - Water	listed		
Explosive precursors : Not	applicable.		
Ozone depleting substances (100	5/2009/EU <u>)</u>		
Not listed.			
Prior Informed Consent (PIC) (649 Not listed.	/ <u>2012/EU)</u>		
Persistent Organic Pollutants Not listed.			
Seveso Directive			
This product is not controlled under t	he Seveso Directi	ve.	
Annex VIIA - Labelling for Cor			
dentification		Concentration	
ion-ionic surfactants imphoteric surfactants		less than 5% less than 5%	
National regulations			
Storage class (TRGS 510) : 8B			
Hazardous incident ordinance			
This product is not controlled under t Hazard class for water : 1	ne Germany Haza	ardous incident Ordinance.	
Technical instruction on : TA-I	uft Class I - Num uft Number 5.2.5	ber 5.2.5: 20-25% : 2-11%	
nternational regulations			
Chemical Weapon Convention List	<u>Schedules I, II &amp;</u>	III Chemicals	
<i>Iontreal Protocol</i> Not listed.			
Stockholm Convention on Persiste	nt Organic Pollu	tants	
Not listed.			
	ormod Concert (		
Rotterdam Convention on Prior Info	<u>onneu Consent (</u>		
JNECE Aarhus Protocol on POPs a	nd Heavy Metals	5	
Not listed.		-	
nventory list			
-	determined.		
Canada : Not			

## **SECTION 15: Regulatory information**

		-
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group</li> </ul>
vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Met. Corr. 1, H290	Expert judgment
Skin Corr. 1, H314	On basis of test data
Eye Dam. 1, H318	On basis of test data
STOT SE 3, H335	Calculation method

#### Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Germany

Rust remover liquid

SECTION 16: Other	r information	
Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Met. Corr. 1 Skin Corr. 1 Skin Corr. 1A Skin Corr. 1B STOT SE 3		ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 CORROSIVE TO METALS - Category 1 SKIN CORROSION/IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
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Notice to reader		

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.