

#### IF - Prevacide



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

**1.1 Product identifier:** IF - Prevacide

Article numbers: F0386, A02911, A02912, A02913

**UFI:** 8TX0-E02M-8007-7U6H

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

Relevant uses: Additive for fodder (animal feed). For professional users/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

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

Indufarm N.V. Leon Bekaertstraat 5 8770 Ingelmunster - Belgium Tel.: +3251624245 contact@indufarm.com www.indufarm.com

1.4 Emergency telephone number: Anti poison center +32 (0)70 245 245

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Corr. 1B: Skin corrosion, Category 1B, H314

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

#### 2.2 Label elements:

#### CLP Regulation (EC) No 1272/2008:

#### Danger





#### **Hazard statements:**

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

STOT SE 3: H335 - May cause respiratory irritation.

#### **Precautionary statements:**

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

#### Supplementary information:

EUH071: Corrosive to the respiratory tract.

UFI: 8TX0-E02M-8007-7U6H

#### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

#### 3.1 Substance:

Non-applicable

## 3.2 Mixture:

**Chemical description:** EU-approved feed blend designed to enhance taste, texture, or preservation

## Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification	Chemical name/Classification				
CAS: EC:	64-18-6 200-579-1	Formic acid(1)	Self-classific			
Index:	607-001-00-0 01-2119491174-37- XXXX	Regulation 1272/2008	Acute Tox. 3: H331; Acute Tox. 4: H302; Flam. Liq. 3: H226; Skin Corr. 1A: H314; EUH071 - Danger	25 - <50 %		
CAS: EC:	79-09-4 201-176-3	propionic acid(1)	Self-classific	d		
Index:	607-089-00-0 01-2119486971-24- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	10 - <25 %		
CAS: EC:	79-33-4 201-196-2	L-(+)-lactic acid <sup>(1)</sup>	ATP ATP15			
Index:	201-196-2 607-743-00-5 01-2119474164-39- XXXX	Regulation 1272/2008	Eye Dam. 1: H318; Skin Corr. 1C: H314; EUH071 - Danger	10 - <25 %		
CAS:	64-19-7	Acetic acid(1)	ATP CLP00			
	200-580-7 607-002-00-6 01-2119475328-30- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Corr. 1A: H314 - Danger	5 - <10 %		
CAS:	77-92-9	Citric Acid(1)	ATP ATP17			
	201-069-1 607-750-00-3 01-2119457026-42- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; STOT SE 3: H335 - Warning	1 - <2.5 %		
CAS:	590-46-5	Betaine hydrochloride	Self-classific	d		
	209-683-1 Non-applicable 01-2120772050-66- XXXX	Regulation 1272/2008	Eye Dam. 1: H318 - Danger	1 - <2.5 %		
CAS: EC:	7758-99-8 231-847-6	Copper sulfate pental	nydrate(1) ATP ATP17			
Index:	231-847-6 029-023-00-4 01-2119520566-40- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318 - Danger	<1 %		
CAS:	5970-45-6	Zinc di(acetate) · 2H2	Self-classific	d		
EC: Index: REACH:	209-170-2 Non-applicable 01-2120119383-62- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	<1 %		

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## Other information:

	Identification		M-factor		
Copper sulfate pentahydr	ate	Acute	10		
CAS: 7758-99-8	EC: 231-847-6	Chronic	1		

Identification	Specific concentration limit
Formic acid CAS: 64-18-6 EC: 200-579-1	% (w/w) >=90: Skin Corr. 1A - H314 10<= % (w/w) <90: Skin Corr. 1B - H314 2<= % (w/w) <10: Skin Irrit. 2 - H315 % (w/w) >=10: Eye Dam. 1 - H318 2<= % (w/w) <10: Eye Irrit. 2 - H319
Acetic acid CAS: 64-19-7 EC: 200-580-7	% (w/w) >=90: Skin Corr. 1A - H314 25<= % (w/w) <90: Skin Corr. 1B - H314 10<= % (w/w) <25: Skin Irrit. 2 - H315 % (w/w) >=25: Eye Dam. 1 - H318 10<= % (w/w) <25: Eye Irrit. 2 - H319

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Acu	Genus	
Formic acid	LD50 oral	730 mg/kg (ATEi)	Rat
CAS: 64-18-6	LD50 dermal	Not relevant	
EC: 200-579-1	LC50 inhalation	Not relevant	

### **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

## Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

## Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

## **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.



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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

Minimum Temp.: 0 °C

Maximum Temp.: 40 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

	Identification		Occupational exposure limits			
Formic acid		WEL (8h)	5 ppm	9.6 mg/m <sup>3</sup>		
CAS: 64-18-6	EC: 200-579-1	WEL (15 min)				
propionic acid		WEL (8h)	10 ppm	31 mg/m <sup>3</sup>		
CAS: 79-09-4	EC: 201-176-3	WEL (15 min)	15 ppm	46 mg/m <sup>3</sup>		
Acetic acid		WEL (8h)	10 ppm	25 mg/m <sup>3</sup>		
CAS: 64-19-7	EC: 200-580-7	WEL (15 min)	20 ppm	50 mg/m <sup>3</sup>		
Copper sulfate p	pentahydrate	WEL (8h)		1 mg/m³		
CAS: 7758-99-8	EC: 231-847-6	WEL (15 min)		2 mg/m³		

# **DNEL (Workers):**

		Short	exposure	Long	g exposure
Identification	Systemic	Local	Systemic	Local	
Formic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-18-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-579-1	Inhalation	Not relevant	Not relevant	Not relevant	9.5 mg/m <sup>3</sup>
Acetic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-19-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-580-7	Inhalation	Not relevant	25 mg/m <sup>3</sup>	Not relevant	25 mg/m <sup>3</sup>
Betaine hydrochloride	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 590-46-5	Dermal	Not relevant	Not relevant	252 mg/kg	Not relevant
EC: 209-683-1	Inhalation	Not relevant	Not relevant	177 mg/m³	Not relevant
Copper sulfate pentahydrate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 7758-99-8	Dermal	Not relevant	Not relevant	137 mg/kg	Not relevant
EC: 231-847-6	Inhalation	Not relevant	Not relevant	1 mg/m³	1 mg/m³
Zinc di(acetate) · 2H2O	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 5970-45-6	Dermal	Not relevant	Not relevant	1.338 mg/kg	Not relevant
EC: 209-170-2	Inhalation	Not relevant	Not relevant	4.71 mg/m³	Not relevant

## **DNEL (General population):**

1 .		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Formic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-18-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-579-1	Inhalation	Not relevant	Not relevant	Not relevant	3 mg/m³
Acetic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-19-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-580-7	Inhalation	Not relevant	25 mg/m <sup>3</sup>	Not relevant	25 mg/m <sup>3</sup>
Betaine hydrochloride	Oral	Not relevant	Not relevant	12.6 mg/kg	Not relevant
CAS: 590-46-5	Dermal	Not relevant	Not relevant	126 mg/kg	Not relevant
EC: 209-683-1	Inhalation	Not relevant	Not relevant	44 mg/m <sup>3</sup>	Not relevant
Copper sulfate pentahydrate	Oral	0.082 mg/kg	Not relevant	0.041 mg/kg	Not relevant
CAS: 7758-99-8	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 231-847-6	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
Zinc di(acetate) · 2H2O	Oral	Not relevant	Not relevant	0.669 mg/kg	Not relevant
CAS: 5970-45-6	Dermal	Not relevant	Not relevant	0.669 mg/kg	Not relevant
EC: 209-170-2	Inhalation	Not relevant	Not relevant	1.16 mg/m³	Not relevant

## PNEC:

Identification					
Formic acid	STP	7.2 mg/L	Fresh water	2 mg/L	
CAS: 64-18-6	Soil	1.5 mg/kg	Marine water	0.2 mg/L	
EC: 200-579-1	Intermittent	1 mg/L	Sediment (Fresh water)	13.4 mg/kg	
	Oral	Not relevant	Sediment (Marine water)	1.34 mg/kg	



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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Acetic acid	STP	85 mg/L	Fresh water	3.058 mg/L
CAS: 64-19-7	Soil	0.47 mg/kg	Marine water	0.306 mg/L
EC: 200-580-7	Intermittent	30.58 mg/L	Sediment (Fresh water)	11.36 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1.136 mg/kg
Citric Acid	STP	1000 mg/L	Fresh water	0.44 mg/L
CAS: 77-92-9	Soil	33.1 mg/kg	Marine water	0.044 mg/L
EC: 201-069-1	Intermittent	Not relevant	Sediment (Fresh water)	34.6 mg/kg
	Oral	Not relevant	Sediment (Marine water)	3.46 mg/kg
Copper sulfate pentahydrate	STP	0.23 mg/L	Fresh water	0.0078 mg/L
CAS: 7758-99-8	Soil	65 mg/kg	Marine water	0.0052 mg/L
EC: 231-847-6	Intermittent	Not relevant	Sediment (Fresh water)	87 mg/kg
	Oral	Not relevant	Sediment (Marine water)	676 mg/kg
Zinc di(acetate) · 2H2O	STP	0.009 mg/L	Fresh water	0.002 mg/L
CAS: 5970-45-6	Soil	0 mg/kg	Marine water	0 mg/L
EC: 209-170-2	Intermittent	0.021 mg/L	Sediment (Fresh water)	0.008 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.001 mg/kg

## 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract	Filter mask for gases and vapours	CATIII	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
protection				

## C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

## D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield	CATII	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

## E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks	CAT III	EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory foot protection	Safety footwear for protection against chemical risk	CAT III	EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

## F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Not available

### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 53 % weight

V.O.C. density at 20 °C: 636.31 kg/m³ (636.31 g/L)

Average carbon number: 1.61
Average molecular weight: 54.64 g/mol

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

## Appearance:

Physical state at 20 °C: Liquid

Appearance: Not available

Colour: Not available

Odour threshold: Not relevant \*

Volatility:

Odour:

Boiling point at atmospheric pressure: 108 °C
Vapour pressure at 20 °C: 2860 Pa

Vapour pressure at 50 °C: 12749.65 Pa (12.75 kPa)

Evaporation rate at 20 °C: Not relevant \*

**Product description:** 

Density at 20 °C: 1200.6 kg/m<sup>3</sup>

Relative density at 20 °C:

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Concentration:

PH:

Not relevant \*

Not relevant \*

Vapour density at 20 °C:

Not relevant \*

Partition coefficient n-octanol/water 20 °C: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Solubility properties: Not relevant \* Decomposition temperature: Not relevant \* Melting point/freezing point: Not relevant \*

Flammability:

>61 °C Flash Point: Flammability (solid, gas): Not relevant \* 427 °C Autoignition temperature: Not relevant \* Lower flammability limit: Not relevant \* Upper flammability limit:

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

#### Information with regard to physical hazard classes:

Not relevant \* Explosive properties: Not relevant \* Oxidising properties: Corrosive to metals: Not relevant \* Heat of combustion: Not relevant \* Aerosols-total percentage (by mass) of flammable Not relevant \*

components:

Other safety characteristics:

Surface tension at 20 °C: Not relevant \* Not relevant \* Refraction index:

\*Not relevant due to the nature of the product, not providing information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

## 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Ī	Not applicable	Not applicable	Precaution	Precaution	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

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

The experimental information related to the toxicological properties of the product itself is not available

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#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Corrosive to the respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Not relevant

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

## Other information:

Not relevant

#### Specific toxicology information on the substances:

Identification	Acu	Genus	
Formic acid	LD50 oral	730 mg/kg (ATEi)	Rat
CAS: 64-18-6	LD50 dermal	>2000 mg/kg	
EC: 200-579-1	LC50 inhalation	7.85 mg/L (4 h)	Rat
Acetic acid	LD50 oral	>2000 mg/kg	
CAS: 64-19-7	LD50 dermal	>2000 mg/kg	
EC: 200-580-7	LC50 inhalation	>20 mg/L	

propionic acid CAS: 79-09-4 EC: 201-176-3

LD50 oral	3455 mg/kg	
LD50 dermal	>2000 mg/kg	
LC50 inhalation	>20 mg/L	

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification		Acute toxicity		
L-(+)-lactic acid	LD50 oral	3543 mg/kg	Rat	
CAS: 79-33-4	LD50 dermal	>2000 mg/kg		
EC: 201-196-2	LC50 inhalation	>5 mg/L		
Citric Acid	LD50 oral	5400 mg/kg	Rat	
CAS: 77-92-9	LD50 dermal	>2000 mg/kg		
EC: 201-069-1	LC50 inhalation	>5 mg/L		
Betaine hydrochloride	LD50 oral	11179 mg/kg	Rat	
CAS: 590-46-5	LD50 dermal	>2000 mg/kg		
EC: 209-683-1	LC50 inhalation	>5 mg/L		
Copper sulfate pentahydrate	LD50 oral	481 mg/kg	Rat	
CA <mark>S: 775</mark> 8-99 <mark>-8</mark>	LD50 dermal	>2000 mg/kg		
EC: 231-847-6	LC50 inhalation	>5 mg/L		
Z <mark>inc di(</mark> acetate) · 2H2O	LD50 oral	794 mg/kg	Rat	
CAS: 5 <mark>970-45-6</mark>	LD50 dermal	>2000 mg/kg	1	
EC: 209-170-2	LC50 inhalation	>5 mg/L		

## 11.2 Information on other hazards:

#### **Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

## Other information

Not relevant

# **SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available Harmful to aquatic life with long lasting effects.

## 12.1 Toxicity:

#### Acute toxicity:

Identification		Concentration	Species	Genus
Formic acid	LC50	130 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 64-18-6	EC50	365 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-579-1	EC50	Not relevant		
L-(+)-lactic acid	LC50	320 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 79-33-4	EC50	240 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-196-2	EC50	3.5 mg/L (70 h)	Selenastrum capricornutum	Algae
Acetic acid	LC50	75 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 64-19-7	EC50	47 mg/L (24 h)	Daphnia magna	Crustacean
EC: 200-580-7	EC50	Not relevant		
Citric Acid	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 77-92-9	EC50	160 mg/L (48 h)	N/A	Crustacean
EC: 201-069-1	EC50	Not relevant		
Copper sulfate pentahydrate	LC50	0.81 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 7758-99-8	EC50	Not relevant		
EC: 231-847-6	EC50	Not relevant		
Zinc di(acetate) · 2H2O	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 5970-45-6	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 209-170-2	EC50	>0.1 - 1 mg/L (72 h)		Algae

## **Chronic toxicity:**

Identification		Concentration	Species	Genus
Formic acid	NOEC	Not relevant		
CAS: 64-18-6 EC: 200-579-1	NOEC	100 mg/L	Daphnia magna	Crustacean

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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
Acetic acid	NOEC	57.2 mg/L	Oncorhynchus mykiss	Fish
CAS: 64-19-7 EC: 200-580-7	NOEC	80 mg/L	Daphnia magna	Crustacean

## 12.2 Persistence and degradability:

## **Substance-specific information:**

Identification	D	egradability	Biode	egradability
Formic acid	BOD5	Not relevant	Concentration	18 mg/L
CAS: 64-18-6	COD	Not relevant	Period	28 days
EC: 200-579-1	BOD5/COD	Not relevant	% Biodegradable	97 %
Acetic acid	BOD5	Not relevant	Concentration	100 mg/L
CAS: 64-19-7	COD	Not relevant	Period	14 days
EC: 200-580-7	BOD5/COD	Not relevant	% Biodegradable	74 %
Citric Acid	BOD5	Not relevant	Concentration	10 mg/L
CAS: 77-92-9	COD	Not relevant	Period	28 days
EC: 201-069-1	BOD5/COD	Not relevant	% Biodegradable	97 %

## 12.3 Bioaccumulative potential:

## **Substance-specific information:**

Identification		Bioaccumulation potential	
Formic acid	BCF	3.2	
CAS: 64-18-6	Pow Log		
EC: 200-579-1	Potential	Low	
Acetic acid	BCF	3	
CAS: 64-19-7	Pow Log	-0.71	
EC: 200-580-7	Potential	Low	
Citric Acid	BCF	3	
CAS: 77-92-9	Pow Log	-1.55	
EC: 201-069-1	Potential	Low	

# 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Formic acid	Koc	31	Henry	1.9E-2 Pa·m³/mol
CAS: 64-18-6	Conclusion	Very High	Dry soil	Not relevant
EC: 200-579-1	Surface tension	3.862E-2 N/m (25 °C)	Moist soil	Not relevant
propionic acid	Koc	Not relevant	Henry	Not relevant
CAS: 79-09-4	Conclusion	Not relevant	Dry soil	Not relevant
EC: 201-176-3	Surface tension	2.62E-2 N/m (25 °C)	Moist soil	Not relevant
Acetic acid	Koc	Not relevant	Henry	Not relevant
CAS: 64-19-7	Conclusion	Not relevant	Dry soil	Not relevant
EC: 200-580-7	Surface tension	2.699E-2 N/m (25 °C)	Moist soil	Not relevant
Citric Acid	Koc	Not relevant	Henry	Not relevant
CAS: 77-92-9	Conclusion	Not relevant	Dry soil	Not relevant
EC: 201-069-1	Surface tension	2.045E-2 N/m (350.93 °C)	Moist soil	Not relevant

# 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

## 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

## 12.7 Other adverse effects:

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

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## SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
20 01 14*	Acids	Hazardous	

### Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP6 Acute Toxicity, HP8 Corrosive

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

#### **SECTION 14: TRANSPORT INFORMATION**

## Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

14.1 UN number or ID number: UN3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid; propionic

acid) 8

8

14.3 Transport hazard class(es):

14.4 Packing group: Π

14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: 274

Tunnel restriction code:

Physico-Chemical properties: see section 9

Limited quantities: 1 L

Maritime transport in bulk according to IMO instruments:

Not relevant



### Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1 UN number or ID number: UN3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid; propionic

acid)

14.3 Transport hazard class(es): 8

> Labels: 8

14.4 Packing group: Π 14.5 Marine pollutant: No

14.6 Special precautions for user

274 Special regulations: EmS Codes: F-A, S-B Physico-Chemical properties: see section 9

Limited quantities: 11 Segregation group: SGG1



14.7 Maritime transport in bulk according to IMO instruments:

Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

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#### SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number: UN3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid; propionic

> acid) 8

14.3 Transport hazard class(es):

8 Labels:

14.4 Packing group: Π 14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Maritime transport in bulk

according to IMO instruments:

## Not relevant

#### **SECTION 15: REGULATORY INFORMATION**

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

- Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains benzoic acid, Hexa-2,4-dienoic acid.
- Article 95, REGULATION (EU) No 528/2012: Formic acid (64-18-6) PT: (2,3,4,5,6); L-(+)-lactic acid (79-33-4) PT: (1,2,3,4,6); Citric Acid (77-92-9) - PT: (2); Copper sulfate pentahydrate (7758-99-8) - PT: (2)
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

## Seveso III:

Not relevant

## Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

- orname<mark>ntal articles intended to</mark> produce <mark>light or col</mark>our effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes.
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

#### SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

Texts of the legislative phrases mentioned in section 2:

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## SECTION 16: OTHER INFORMATION (continued)

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H331 - Toxic if inhaled.

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT SE 3: H335 - May cause respiratory irritation.

### Classification procedure:

Skin Corr. 1B: Calculation method

Eye Dam. 1: Calculation method

STOT SE 3: Calculation method

Aquatic Chronic 3: Calculation method

### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

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#### Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

Date of compilation: 2/22/2024 Version: 1 Page 14/14

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.