


**Maxid Poultry 4000**
**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** A00388 – A00125 – A00126 - Maxid Poultry 4000

**Other means of identification:**

**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: +32-51-624245  
[info@indufarm.com](mailto:info@indufarm.com)  
[www.indufarm.com](http://www.indufarm.com)

**1.4 Emergency telephone number:** 070-245245 mo-su 24h

**SECTION 2: HAZARDS IDENTIFICATION**

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

**GB CLP Regulation:**

Classification of this product has been carried out in accordance with GB CLP Regulation.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302

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:**

**GB CLP Regulation:**

Danger



**Hazard statements:**

Acute Tox. 4: H302 - Harmful if swallowed.

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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 the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

**Supplementary information:**

EUH071: Corrosive to the respiratory tract.

**2.3 Other hazards:**

Product fails to meet PBT/vPvB 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:** Acid-based mixture of organic substances

**Components:**

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 64-18-6	<b>Formic acid</b> Acute Tox. 3: H331; Acute Tox. 4: H302; Flam. Liq. 3: H226; Skin Corr. 1A: H314; EUH071 - Danger 	25 - <50 %
CAS: 79-33-4	<b>L-(+)-lactic acid</b> Eye Dam. 1: H318; Skin Irrit. 2: H315; EUH071 - Danger 	10 - <25 %
CAS: 79-09-4	<b>propionic acid</b> Skin Corr. 1B: H314 - Danger 	10 - <25 %
CAS: 64-19-7	<b>Acetic acid</b> Flam. Liq. 3: H226; Skin Corr. 1A: H314 - Danger 	5 - <10 %
CAS: 124-07-2	<b>Octanoic acid</b> Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314 - Danger 	1 - <2.5 %
CAS: 557-25-5	<b>2,3-dihydroxypropyl butyrate</b> Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning 	1 - <2.5 %
CAS: 60-01-5	<b>Glycerol tributyrate</b>	1 - <2.5 %
CAS: 334-48-5	<b>Decanoic acid</b> Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning 	1 - <2.5 %

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

**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:**

Non-applicable

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**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,...).

**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.

**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 spilled 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.

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**SECTION 7: HANDLING AND STORAGE (continued)**

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:

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

Identification		Occupational exposure limits		
Formic acid CAS: 64-18-6	WEL (8h)	5 ppm	9.6 mg/m <sup>3</sup>	
	WEL (15 min)			
propionic acid CAS: 79-09-4	WEL (8h)	10 ppm	31 mg/m <sup>3</sup>	
	WEL (15 min)	15 ppm	46 mg/m <sup>3</sup>	
Acetic acid CAS: 64-19-7	WEL (8h)	10 ppm	25 mg/m <sup>3</sup>	
	WEL (15 min)	20 ppm	50 mg/m <sup>3</sup>	

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Formic acid CAS: 64-18-6 EC: 200-579-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	9.5 mg/m <sup>3</sup>
Acetic acid CAS: 64-19-7 EC: 200-580-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	25 mg/m <sup>3</sup>	Non-applicable	25 mg/m <sup>3</sup>

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Formic acid CAS: 64-18-6 EC: 200-579-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	3 mg/m <sup>3</sup>
Acetic acid CAS: 64-19-7 EC: 200-580-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	25 mg/m <sup>3</sup>	Non-applicable	25 mg/m <sup>3</sup>

**PNEC:**

Identification					
Formic acid CAS: 64-18-6 EC: 200-579-1	STP	7.2 mg/L	Fresh water		2 mg/L
	Soil	1.5 mg/kg	Marine water		0.2 mg/L
	Intermittent	1 mg/L	Sediment (Fresh water)		13.4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)		1.34 mg/kg

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

Identification				
Acetic acid CAS: 64-19-7 EC: 200-580-7	STP	85 mg/L	Fresh water	3.058 mg/L
	Soil	0.47 mg/kg	Marine water	0.306 mg/L
	Intermittent	30.58 mg/L	Sediment (Fresh water)	11.36 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1.136 mg/kg
Octanoic acid CAS: 124-07-2 EC: 204-677-5	STP	912 mg/L	Fresh water	0.02 mg/L
	Soil	0.047 mg/kg	Marine water	0.002 mg/L
	Intermittent	0.22 mg/L	Sediment (Fresh water)	0.295 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.029 mg/kg
Decanoic acid CAS: 334-48-5 EC: 206-376-4	STP	912 mg/L	Fresh water	0.02 mg/L
	Soil	0.176 mg/kg	Marine water	0.002 mg/L
	Intermittent	0.15 mg/L	Sediment (Fresh water)	0.937 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.094 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 <<UKCA marking>>. 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	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	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.

**C.- Specific protection for the hands**



Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	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	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.



**E.- Body protection**

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration.

**F.- Additional emergency measures**

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

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

**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:	Characteristic
Colour:	 Blue
Odour:	Pungent
Odour threshold:	Non-applicable *

**Volatility:**

Boiling point at atmospheric pressure:	112 °C
Vapour pressure at 20 °C:	2891 Pa
Vapour pressure at 50 °C:	12710.34 Pa (12.71 kPa)
Evaporation rate at 20 °C:	Non-applicable *

**Product description:**

Density at 20 °C:	1177.3 kg/m <sup>3</sup>
Relative density at 20 °C:	1.177
Dynamic viscosity at 20 °C:	147.6 cP
Kinematic viscosity at 20 °C:	125.37 mm <sup>2</sup> /s
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

**Flammability:**

Flash Point:	>65 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	377 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

**Particle characteristics:**

Median equivalent diameter:	Non-applicable
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\*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)**
**9.2 Other information:**
**Information with regard to physical hazard classes:**

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

**Other safety characteristics:**

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

\*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.

**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
Not applicable	Not applicable	Precaution	Precaution	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects:**

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

**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 : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- 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: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**
**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: Non-applicable
- 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:**

Non-applicable

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal / LC50 inhalation	
Formic acid CAS: 64-18-6	LD50 oral	730 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	7.85 mg/L (4 h)	Rat
propionic acid CAS: 79-09-4	LD50 oral	3455 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Acetic acid CAS: 64-19-7	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
L-(+)-lactic acid CAS: 79-33-4	LD50 oral	3543 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
2,3-dihydroxypropyl butyrate CAS: 557-25-5	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Glycerol tributyrat CAS: 60-01-5	LD50 oral	3200 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	Non-applicable	
Decanoic acid CAS: 334-48-5	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	

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

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Octanoic acid CAS: 124-07-2	10080 mg/kg	>5000 mg/kg	Rat
	LC50 inhalation	>20 mg/L	

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Toxicity:**
**Acute toxicity:**

Identification	Concentration		Species	Genus
	LC50	EC50		
Formic acid CAS: 64-18-6	130 mg/L (96 h)		Brachydanio rerio	Fish
	365 mg/L (48 h)		Daphnia magna	Crustacean
	Non-applicable			
L-(+)-lactic acid CAS: 79-33-4	320 mg/L (96 h)		Brachydanio rerio	Fish
	240 mg/L (48 h)		Daphnia magna	Crustacean
	3.5 mg/L (70 h)		Selenastrum capricornutum	Algae
Acetic acid CAS: 64-19-7	75 mg/L (96 h)		Lepomis macrochirus	Fish
	47 mg/L (24 h)		Daphnia magna	Crustacean
	Non-applicable			
Octanoic acid CAS: 124-07-2	22 mg/L (96 h)		Lepomis macrochirus	Fish
	21 mg/L (48 h)		Daphnia magna	Crustacean
	44 mg/L (72 h)		Pseudokirchneriella subcapitata	Algae
Decanoic acid CAS: 334-48-5	>10 - 100 mg/L (96 h)			Fish
	>10 - 100 mg/L (48 h)			Crustacean
	>10 - 100 mg/L (72 h)			Algae

**Chronic toxicity:**

Identification	Concentration		Species	Genus
	NOEC	Non-applicable		
Formic acid CAS: 64-18-6	Non-applicable			
	100 mg/L		Daphnia magna	Crustacean
Acetic acid CAS: 64-19-7	57.2 mg/L		Oncorhynchus mykiss	Fish
	80 mg/L		Daphnia magna	Crustacean
Octanoic acid CAS: 124-07-2	6.4 mg/L		Danio rerio	Fish
	0.2 mg/L		Daphnia magna	Crustacean

**12.2 Persistence and degradability:**
**Substance-specific information:**

Identification	Degradability		Biodegradability	
	BOD5	Non-applicable	Concentration	Period
Formic acid CAS: 64-18-6	Non-applicable		18 mg/L	28 days
	Non-applicable		% Biodegradable	97 %
	Non-applicable		Concentration	100 mg/L
Acetic acid CAS: 64-19-7	Non-applicable		14 days	74 %
	Non-applicable		% Biodegradable	74 %
	Non-applicable		Concentration	2 mg/L
Octanoic acid CAS: 124-07-2	Non-applicable		30 days	100 %
	0 g O2/g		Period	30 days
	Non-applicable		% Biodegradable	100 %

**12.3 Bioaccumulative potential:**
**Substance-specific information:**

Identification	Bioaccumulation potential	
	BCF	Pow Log
Formic acid CAS: 64-18-6	3.2	
	Potential	Low

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Bioaccumulation potential	
Acetic acid CAS: 64-19-7	BCF	3
	Pow Log	-0.71
	Potential	Low
Octanoic acid CAS: 124-07-2	BCF	240
	Pow Log	3.05
	Potential	High

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Formic acid CAS: 64-18-6	Koc	31	Henry	1.9E-2 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	3.862E-2 N/m (25 °C)	Moist soil	Non-applicable
propionic acid CAS: 79-09-4	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.62E-2 N/m (25 °C)	Moist soil	Non-applicable
Acetic acid CAS: 64-19-7	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.699E-2 N/m (25 °C)	Moist soil	Non-applicable
Octanoic acid CAS: 124-07-2	Koc	111	Henry	Non-applicable
	Conclusion	High	Dry soil	Non-applicable
	Surface tension	2.96E-2 N/m (25 °C)	Moist soil	Non-applicable
Decanoic acid CAS: 334-48-5	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	1.313E-2 N/m (235.73 °C)	Moist soil	Non-applicable

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**
**13.1 Waste treatment methods:**

Code	Description	Waste class
20 01 14*	Acids	Dangerous

**Type of waste:**

HP6 Acute Toxicity, HP8 Corrosive

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

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 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-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

**SECTION 14: TRANSPORT INFORMATION**
**Transport of dangerous goods by land:**

With regard to ADR 2021 and RID 2021:

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


- 14.1 UN number:** UN3265  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid)  
**14.3 Transport hazard class(es):** 8  
 Labels: 8  
**14.4 Packing group:** II  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
 Tunnel restriction code: E  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:



- 14.1 UN number:** UN3265  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid)  
**14.3 Transport hazard class(es):** 8  
 Labels: 8  
**14.4 Packing group:** II  
**14.5 Marine pollutant:** No  
**14.6 Special precautions for user**  
 Special regulations: 274  
 EmS Codes: F-A, S-B  
 Physico-Chemical properties: see section 9  
 Limited quantities: 1 L  
 Segregation group: SGG1  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2022:



- 14.1 UN number:** UN3265  
**14.2 UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Formic acid)  
**14.3 Transport hazard class(es):** 8  
 Labels: 8  
**14.4 Packing group:** II  
**14.5 Environmental hazards:** No  
**14.6 Special precautions for user**  
 Physico-Chemical properties: see section 9  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

**The Control of Major Accident Hazards Regulations 2015:**

Non-applicable

**Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):**

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**SECTION 15: REGULATORY INFORMATION (continued)**

Shall not be used in:

- ornamental articles intended to produce light or colour 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.

**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 REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.  
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits.

**SECTION 16: OTHER INFORMATION****Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

**Texts of the legislative phrases mentioned in section 2:**

H302: Harmful if swallowed.  
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

**GB CLP Regulation:**

Acute Tox. 3: H331 - Toxic if inhaled.  
Acute Tox. 4: H302 - Harmful if swallowed.  
Aquatic Chronic 3: H412 - Harmful 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.

**Classification procedure:**

Acute Tox. 4: Calculation method  
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.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

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**SECTION 16: OTHER INFORMATION (continued)**

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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, 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.

- END OF SAFETY DATA SHEET -