



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

- 1.1 Product identifier:** MICENE TRIPLE
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Fungicide for agricultural use. For professional 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:**  
Sipcam Inagra S.A.  
C\ Profesor Beltrán Bágüena Nº 5  
46009 Valencia - Valencia - Spain  
Phone.: +34 963483500 -  
Fax: +34 963482721  
sipcaminagra@sipcam.es  
www.sipcam.es
- 1.4 Emergency telephone number:** +34 91 562 04 20

## SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) n° 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410  
Repr. 2: Reproductive toxicity, Category 2, H361d  
Skin Sens. 1: Sensitisation, skin, Category 1, H317  
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**  
**CLP Regulation (EC) n° 1272/2008:**  
**Warning**
- 
- Hazard statements:**  
Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects  
Repr. 2: Suspected of damaging the unborn child.  
Skin Sens. 1: May cause an allergic skin reaction  
STOT SE 3: May cause respiratory irritation
- Precautionary statements:**  
Keep out of reach of children  
Do not breathe dust  
Do not get in eyes, on skin, or on clothing  
Avoid release to the environment  
Wear protective gloves/protective clothing/eye protection/face protection  
IF SWALLOWED, exposed or concerned, experiencing respiratory symptoms or if you feel unwell: Call a POISON CENTER or a doctor  
Store in a dry place  
Dispose of contents and / or containers in accordance with regulations on hazardous waste
- Supplementary information:**  
Contains Methenamine. May produce an allergic reaction  
To avoid risks to human health and the environment, comply with the instructions for use  
This product should not be used by pregnant women.
- Other regulatory indications (Regulation EU 547/2011):**  
Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.
- 2.3 Other hazards:**  
Non-applicable



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

Non-applicable

### 3.2 Mixture:

**Chemical description:** Mixture composed of additives and biocides

#### Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 8018-01-7 EC: Non-applicable Index: 006-076-00-1 REACH: Non-applicable	<b>Mancozeb (ISO)</b> ATP ATP01	<b>25 - &lt;50 %</b>
	Regulation 1272/2008 Aquatic Acute 1: H400; Repr. 2: H361d; Skin Sens. 1: H317 - Warning	
CAS: 1332-58-7 EC: 310-194-1 Index: Non-applicable REACH: Non-applicable	<b>Kaolin</b> Not classified	<b>10 - &lt;25 %</b>
	Regulation 1272/2008	
CAS: 71626-11-4 EC: 275-728-7 Index: 616-104-00-X REACH: Non-applicable	<b>benalaxyl (ISO)</b> ATP CLP00	<b>5 - &lt;10 %</b>
	Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 57966-95-7 EC: 261-043-0 Index: 616-035-00-5 REACH: Non-applicable	<b>cymoxanil (ISO)</b> ATP ATP06	<b>1 - &lt;5 %</b>
	Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Repr. 2: H361; Skin Sens. 1: H317; STOT RE 2: H373 - Warning	
CAS: 81065-51-2 EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Naphthalenesulfonic acid, methyl-, polymer with formaldehyde, sodium salt</b> Self-classified	<b>1 - &lt;5 %</b>
	Regulation 1272/2008 Eye Dam. 1: H318 - Danger	
CAS: 77-92-9 EC: 201-069-1 Index: Non-applicable REACH: 01-2119457026-42-XXX x	<b>Citric Acid</b> Self-classified	<b>1 - &lt;5 %</b>
	Regulation 1272/2008 Eye Irrit. 2: H319 - Warning	
CAS: 100-97-0 EC: 202-905-8 Index: 612-101-00-2 REACH: 01-2119474895-20-XXX x	<b>Methenamine</b> ATP ATP01	<b>&lt;1 %</b>
	Regulation 1272/2008 Flam. Sol. 2: H228; Skin Sens. 1: H317 - Warning	

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, 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, as 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:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

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

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## SECTION 4: FIRST AID MEASURES (continued)

- It can cause sensitization

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

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. 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. IT IS NOT RECOMMENDED to use tap 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 individual respiratory equipment. 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. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, 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:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

### 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:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

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## SECTION 7: HANDLING AND STORAGE (continued)

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal See sections 8 and 13.

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

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

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):

Fungicide

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup> // Respirable dust 4 mg/m<sup>3</sup>

#### DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methenamine CAS: 100-97-0 EC: 202-905-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	229 mg/kg	Non-applicable	8,8 mg/kg	Non-applicable
	Inhalation	1400 mg/m <sup>3</sup>	Non-applicable	31 mg/m <sup>3</sup>	Non-applicable

#### DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Methenamine CAS: 100-97-0 EC: 202-905-8	Oral	20 mg/kg	Non-applicable	0,95 mg/kg	Non-applicable
	Dermal	22,9 mg/kg	Non-applicable	1,9 mg/kg	Non-applicable
	Inhalation	140 mg/m <sup>3</sup>	Non-applicable	6,7 mg/m <sup>3</sup>	Non-applicable

#### PNEC:

Identification					
Citric Acid CAS: 77-92-9 EC: 201-069-1	STP	1000 mg/L	Fresh water	0,44 mg/L	
	Soil	33,1 mg/kg	Marine water	0,044 mg/L	
	Intermittent	Non-applicable	Sediment (Fresh water)	34,6 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	3,46 mg/kg	
Methenamine CAS: 100-97-0 EC: 202-905-8	STP	100 mg/L	Fresh water	3 mg/L	
	Soil	0,58 mg/kg	Marine water	0,5 mg/L	
	Intermittent	30 mg/L	Sediment (Fresh water)	11 mg/kg	
	Oral	50 g/kg	Sediment (Marine water)	1,84 mg/kg	

### 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure, it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection 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 protection	Filter mask for gases, vapours and particles	 CAT III	EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.

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

### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

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.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

### E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.

### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

### 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

### Volatile organic compounds:

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

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m <sup>3</sup> (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

## 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:	Solid
Appearance:	Powdery

\*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)

Colour:	Yellow
Odour:	Not available
Odour threshold:	Non-applicable *
<b>Volatility:</b>	
Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	Non-applicable *
Evaporation rate at 20 °C:	Non-applicable *
<b>Product description:</b>	
Density at 20 °C:	Non-applicable *
Relative density at 20 °C:	0,35 - 0,45
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	4,5 - 5,5 at 1 %
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 *
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
<b>Flammability:</b>	
Flash Point:	114 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	410 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
<b>9.2 Other information:</b>	
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 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	Not applicable	Not applicable	Not applicable

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## SECTION 10: STABILITY AND REACTIVITY (continued)

### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	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:

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health 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: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

#### 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 dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected of damaging the unborn child.

#### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitizing effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

#### 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, however, it does contain substances which are classified as dangerous due to repetitive exposure. 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 dangerous 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 dangerous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
	Route	Dose	
Kaolin CAS: 1332-58-7 EC: 310-194-1	LD50 oral	5100 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rat
	LC50 inhalation	Non-applicable	
benalaxyl (ISO) CAS: 71626-11-4 EC: 275-728-7	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
cymoxanil (ISO) CAS: 57966-95-7 EC: 261-043-0	LD50 oral	966 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Citric Acid CAS: 77-92-9 EC: 201-069-1	LD50 oral	5400 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Mancozeb (ISO) CAS: 8018-01-7 EC: Non-applicable	LD50 oral	5100 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Naphthalenesulfonic acid, methyl-, polymer with formaldehyde, sodium salt CAS: 81065-51-2 EC: Non-applicable	LD50 oral	4786 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
	LC50	EC50		
Mancozeb (ISO) CAS: 8018-01-7 EC: Non-applicable	LC50	Non-applicable		
	EC50	0.073 mg/L (48 h)	N/A	Crustacean
	EC50	Non-applicable		
Kaolin CAS: 1332-58-7 EC: 310-194-1	LC50	Non-applicable		
	EC50	1100 mg/L (48 h)	Daphnia pulex	Crustacean
	EC50	Non-applicable		
benalaxyl (ISO) CAS: 71626-11-4 EC: 275-728-7	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
cymoxanil (ISO) CAS: 57966-95-7 EC: 261-043-0	LC50	13.5 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	27 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	5.2 mg/L (72 h)	Selenastrum capricornutum	Algae
Citric Acid CAS: 77-92-9 EC: 201-069-1	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	160 mg/L (48 h)	N/A	Crustacean
	EC50	Non-applicable		
Methenamine CAS: 100-97-0 EC: 202-905-8	LC50	49800 mg/L (96 h)	Pimephales promelas	Fish
	EC50	36000 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

### 12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
	Parameter	Value	Parameter	Value
cymoxanil (ISO) CAS: 57966-95-7 EC: 261-043-0	BOD5	Non-applicable	Concentration	2 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	14 %
Citric Acid CAS: 77-92-9 EC: 201-069-1	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	97 %
Methenamine CAS: 100-97-0 EC: 202-905-8	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	22 %

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

### 12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Mancozeb (ISO) CAS: 8018-01-7 EC: Non-applicable	BCF	4
	Pow Log	1.33
	Potential	Low
Citric Acid CAS: 77-92-9 EC: 201-069-1	BCF	3
	Pow Log	-1.55
	Potential	Low
Methenamine CAS: 100-97-0 EC: 202-905-8	BCF	0.4
	Pow Log	-2.84
	Potential	Low

### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
	Koc		Henry	
Mancozeb (ISO) CAS: 8018-01-7 EC: Non-applicable	Koc	1000	Henry	1,52E-6 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
cymoxanil (ISO) CAS: 57966-95-7 EC: 261-043-0	Koc	39	Henry	3,344E-5 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No
Citric Acid CAS: 77-92-9 EC: 201-069-1	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,045E-2 N/m (350,93 °C)	Moist soil	Non-applicable
Methenamine CAS: 100-97-0 EC: 202-905-8	Koc	55	Henry	1,621E-4 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Non-applicable	Moist soil	No

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
02 01 08*	Agrochemical waste containing dangerous substances	Dangerous

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

HP14 Ecotoxic, HP13 Sensitising, HP10 Toxic for reproduction

#### 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). As under 15 01 (2014/955/EC) 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. We do not recommend disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°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

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## SECTION 14: TRANSPORT INFORMATION (continued)

### ADR Remarks:

By application of special provision 375 of ADR 2017, when this material is carried in single or combined packages containing a net quantity per single or inner packaging of 5 kg or less, it is not subject to any other provision of the ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### IMDG Remarks:

By application of paragraph 2.10.2.7 of amendment 38-16 of IMDG, when this material is packaged in single or combined packagings containing a net quantity per single or inner packaging of 5 kg or less, it is not subject to any other provisions of the IMDG relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:



- |   |   |
|---|---|
| <b>14.1 UN number:</b>  | UN3077  |
| <b>14.2 UN proper shipping name:</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb (ISO)) |
| <b>14.3 Transport hazard class(es):</b>   | 9   |
| Labels:   | 9   |
| <b>14.4 Packing group:</b>  | III   |
| <b>14.5 Dangerous for the environment:</b>                                      | Yes   |
| <b>14.6 Special precautions for user</b>  |   |
| Special regulations:  | 274, 335, 375, 601  |
| Tunnel restriction code:  | E   |
| Physico-Chemical properties:  | see section 9   |
| Limited quantities:   | 5 kg  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable  |

### Transport of dangerous goods by sea:

With regard to IMDG 38-16:



- |   |   |
|---|---|
| <b>14.1 UN number:</b>  | UN3077  |
| <b>14.2 UN proper shipping name:</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb (ISO)) |
| <b>14.3 Transport hazard class(es):</b>   | 9   |
| Labels:   | 9   |
| <b>14.4 Packing group:</b>  | III   |
| <b>14.5 Dangerous for the environment:</b>                                      | Yes   |
| <b>14.6 Special precautions for user</b>  |   |
| Special regulations:  | 274, 909  |
| EmS Codes:  | F-A, S-F  |
| Physico-Chemical properties:  | see section 9   |
| Limited quantities:   | 5 kg  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable  |

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2017:



## SECTION 14: TRANSPORT INFORMATION (continued)



<b>14.1 UN number:</b>	UN3077
<b>14.2 UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb (ISO))
<b>14.3 Transport hazard class(es):</b>	9
Labels:	9
<b>14.4 Packing group:</b>	III
<b>14.5 Dangerous for the environment:</b>	Yes
<b>14.6 Special precautions for user</b>	
Physico-Chemical properties:	see section 9
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Non-applicable

## 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 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1).

Candidate substances for authorization under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorization List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Citric Acid (Product-type 2)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Methenamine. Product under the provisions of Article 9

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

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

### 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) N° 1907/2006 (Regulation (EC) N° 2015/830)

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

Remarks about IMDG and ADR in section 14

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

H317: May cause an allergic skin reaction

H335: May cause respiratory irritation

H410: Very toxic to aquatic life with long lasting effects

H361d: Suspected of damaging the unborn child.

#### 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) n° 1272/2008:

- CONTINUED ON NEXT PAGE -



## SECTION 16: OTHER INFORMATION (continued)

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. Sol. 2: H228 - Flammable solid  
Repr. 2: H361 - Suspected of damaging fertility or the unborn child  
Repr. 2: H361d - Suspected of damaging the unborn child.  
Skin Sens. 1: H317 - May cause an allergic skin reaction  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

### Advice related to training:

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

### Principal bibliographical sources:

<http://esis.jrc.ec.europa.eu>  
<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 Organization  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon

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.

- END OF SAFETY DATA SHEET -