

FORMASTER

di Emanuela Magnani & C. s.a.s.
CHEMICAL PRODUCTS
ZOOTECHNICAL DISINFECTANTS

SAFETY DATA SHEET
according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)
Ph. +39 0523 753732
VAT ID: IT 01193020334
PRODUCTION WORKSHOPS n. 296
Via Veratto, 29010 Santimento di Rottofreno (PC)
Ph.: +39 0523 781664
E-mail: info@formaster-italy.com
FORMASTER Fumigant Disinfectant
Creation Date: 06/06/2024 | Version number 1.0

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER: FORMASTER

Business code: **FOR4**

Type of product: Compound

1.2 RELEVANT USE OF THE COMPOUND: fumigant disinfectant for zootechnical and veterinary use only
- medical surgical device.

1.3 DETAILS OF THE SUPPLIER OF MATERIAL SAFETY DATA SHEET:

Manufacturer/supplier:

FORMASTER

Via Veratto - 29010

Santimento (Piacenza)

Tel. 0523.781664

Email: info@formaster-italy.com

1.4 EMERGENCY TELEPHONE NUMBER

0266101029 24/7 - Poison Centre Niguarda Hospital - Milan.

SECTION 2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE.

The product is classified as hazardous under the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplements).

The product therefore requires a safety data sheet in accordance with the provisions of Regulation (EC) 1907/2006 as amended.

Any additional information concerning health and/or environmental hazards can be found in sections 11 and 12 of this data sheet.

2.1.1 REGULATION 1272/2008 (CLP) AND SUBSEQUENT AMENDMENTS AND SUPPLEMENTS

Classification and hazard statements:

Flammable solids, (Category 2)	H228: Flammable solid
Acute toxicity, (Category 4)	H302: Harmful if swallowed
Acute toxicity, (Category 4)	H332: Harmful if inhaled
Skin irritation, (Category 2)	H315: Causes skin irritation
Severe eye injuries, (Category 1)	H318: Causes serious eye damage
Skin sensitisation, (Category 1)	H317: May cause an allergic skin reaction
Germ cell mutagenicity, (Category 2)	H341: Suspected of causing genetic defects
Carcinogenicity, (Category 1B)	H350: May cause cancer
Specific target organ toxicity - single exposure, (Category 3), Respiratory system	H335: May cause respiratory irritation

2.2 LABEL ELEMENTS:

Hazard labelling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and supplements



Warnings	Hazard
Hazard statements:	
H228	Flammable Solid
H350	May cause cancer
H341	Suspected of causing genetic defects
H302 + H332	Harmful if swallowed or inhaled
H314	Causes serious eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
Precautionary statements:	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat sources. No smoking
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
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 continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P308+P313	If exposed or concerned: Get medical advice/attention.
P403+P233	Store in a well ventilated place. Keep container tightly closed.

2.3 OTHER HAZARDS.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)

Ph. +39 0523 753732

VAT ID: IT 01193020334

PRODUCTION WORKSHOPS n. 296

Via Veratto, 29010 Santimento di Rottofreno (PC)

Ph.: +39 0523 781664

E-mail: info@formaster-italy.com

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

3.1 MIXTURES:

Name	N°. CE	Registra tion No.	CAS	CLASSIFICATION Reg. 1272/2008/EC	%*
Paraformaldehyde	608-494-5	--	30525-89-4	Flam. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1B; STOT SE 3; H228, H302, H332, H315, H318, H317, H341, H350, H335	30-40

* mass/mass percentage

Under conditions of use, the mixture can form formaldehyde

Name	N°. CE	Registra tion No.	CAS	CLASSIFICATION Reg. 1272/2008/EC	%*
Formaldehyde from paraformaldehyde	200-001-8	--	50-00-0	Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1B; STOT SE 3; H301, H330, H311, H314, H318, H317, H341, H350, H335	n.d.

SECTION 4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

4.1.1 INHALATION: make the victim breathe pure air and ventilate the room. Seek medical help immediately. The product is lethal if inhaled. In case of respiratory arrest: administer artificial respiration.

4.1.2 IN CASE OF SKIN CONTACT: Immediately remove all contaminated clothing, and rinse immediately with plenty of water. Seek medical help immediately. Do not put on clothes and shoes until they have been cleaned. **WARNING: This product is toxic in contact with skin, get medical advice.**

4.1.3 IN CASE OF CONTACT WITH EYES: Wash immediately with plenty of water for at least 15 minutes, keeping eyelids open. Remove contact lenses immediately. Protect eyes with sterile gauze or a dry clean handkerchief. Do not use eyewash or ointment before eye examination. Contact your eye doctor immediately.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

4.1.4 INGESTION: rinse mouth well with water. Seek medical help for immediate hospitalisation of the victim. Do not induce vomiting, do not administer milk or animal or vegetable fats in general.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Ref. section 2.2.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of ingestion, inhalation, skin or eye contact, seek medical attention immediately and show the label or MSDS of the product.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

5.1.1 SUITABLE: foam, CO₂, powder, sand, earth, water spray.

5.1.2 UNSUITABLE: Spraying lots of water.

5.2 HAZARDS ARISING FROM THE COMPOUND: in case of fire, toxic gases may be released.

5.3 ADVICE FOR FIREFIGHTERS: Use self-contained breathing apparatus and protective firefighting clothing. Collect contaminated water used for extinguishing separately. Do not stand in the danger zone without adequate protection.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

6.1.1 FOR THOSE WHO DO NOT DIRECTLY OPERATE: restrict the flow of product, if this can be done safely. Avoid contact with the substance or exposure to dusts or vapours.

6.1.2 FOR THOSE WHO DIRECTLY OPERATE: avoid contact with skin and eyes. Always wear personal protective equipment (ref. section 8.1).

6.2 ENVIRONMENTAL PRECAUTIONS: Avoid spilling into the ground or into surface waters, contain spillage with soil and sand.

If the product has leaked into surface water, ground water, sewage system, notify the competent authorities.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Wear a mask to protect the respiratory tract and the PPE mentioned in section 8; carefully collect the product with the help of inert material.

6.4 REFERENCE TO OTHER SECTIONS: 7,8,11,12 and 13.

SECTION 7 HANDLING AND STORAGE

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)

Ph. +39 0523 753732

VAT ID: IT 01193020334

PRODUCTION WORKSHOPS n. 296

Via Veratto, 29010 Santimento di Rottofreno (PC)

Ph.: +39 0523 781664

E-mail: info@formaster-italy.com

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

7.1 PRECAUTIONS FOR SAFE HANDLING: Handle with usual precautions for chemicals. Wear suitable protective clothing. Do not breathe vapours.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store the product in tightly closed containers; in ventilated and temperature-controlled rooms, out of sunlight and away from heat sources.

7.3 SPECIFIC END USES: see point 1.2

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE VALUES (exposure limits at the workplace)

Paraformaldehyde

Information is not available.

Formaldehyde:

NIOSH REL : Ca TWA 0.016 ppm C 0.1 ppm [15-minute]; 0,0197 mg/m³

OSHA PEL : TWA 0.75 ppm ST 2 ppm; 0,922 mg/m³

Limit value type : DNEL/DMEL (Worker, Local); Exposure route : Inhalation Frequency of exposure : Long-term (repeated) Limit value : 0,5 mg/m³

Limit value type : DNEL/DMEL (Worker, Local); Exposure route : Inhalation Frequency of exposure : Short-term (acute) Limit value : 1 mg/m³

Limit value type : DNEL/DMEL (Worker, Local); Exposure route : Dermal Frequency of exposure : Long-term (repeated) Limit value : 37 µg/cm²

Limit value type : DNEL/DMEL (Worker, Systemic) Exposure route: Inhalation Frequency of exposure : Long-term (repeated) Limit value : 9 mg/m³

Limit value type : DNEL/DMEL (Worker, Systemic) Exposure route: Dermal Frequency of exposure : Long-term (repeated) Limit value : 240 mg/kg

8.2 EXPOSURE CONTROLS

As it is a carcinogen, in accordance with NIOSH recommendations, it is advised to limit the possibility of contact or inhalation of the product as much as possible and to use reliable PPE with a high degree of protection.

8.2.1 OCCUPATIONAL EXPOSURE CONTROLS:

(a) Respiratory protection: use a mask with cartridge filters A1, A1 + Form, A2, ABE1, ABEK1, K1 (e.g. EN405)

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)

Ph. +39 0523 753732

VAT ID: IT 01193020334

PRODUCTION WORKSHOPS n. 296

Via Veratto, 29010 Santimento di Rottofreno (PC)

Ph.: +39 0523 781664

E-mail: info@formaster-italy.com

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

(b) Hand protection: use protective gloves made of nitrile rubber (e.g. EN374)

(c) Eye protection: use safety glasses or face shield (e.g. EN166)

(d) Skin protection: use normal work clothes (e.g. EN340)

8.2.2 ENVIRONMENTAL EXPOSURE CONTROLS: Do not release the product into surface water, sewers or soil.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: light green, compact tile	VAPOUR PRESSURE: 1.2 mm Jg at 20°C; 6.0 mm Hg at 40°C
ODOUR: characteristic irritant	RELATIVE DENSITY: (15°C) 0.63 kg/dm3
ODOUR THRESHOLD: n.d.	SOLUBILITY n.a.
pH: 3-7	INITIAL BOILING POINT AND BOILING RANGE: n.a.
MELTING/FREEZING POINT: 120-172°C	PARTITION COEFFICIENT n-octanol/water: n.d.
EVAPORATION RATE: n.d.	VISCOSITY: n.d.
FLASH POINT(c.c.): 93 °C	VAPOUR DENSITY: n.d.
FLAMMABILITY (solids, gases): n.d.	AUTO-IGNITION TEMPERATURE: n.d.
EXPLOSIVE PROPERTIES: n.d.	DECOMPOSITION TEMPERATURE: n.d.
OXIDISING PROPERTIES: n.d.	UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMIT: n.d.

The properties indicated are not standard product specifications for which please refer to the specific analysis bulletins.

9.2 OTHER INFORMATION: n.d.

SECTION 10 STABILITY AND REACTIVITY

10.1 REACTIVITY: Not classified as hazardous due to reactivity.

10.2 CHEMICAL STABILITY: The product is stable at room temperature when handled according to the instructions in the safety data sheet, technical data sheet and label.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: there are no known hazardous reactions.

10.4 CONDITIONS TO AVOID: exposure to moisture, do not expose to heat sources.

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

10.5 INCOMPATIBLE MATERIALS: Oxidising agents, water.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: The product does not decompose when handled and stored according to the instructions in the MSDS, technical data sheet and label. In the event of fire, it develops toxic fumes.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Substance	LD50(oral, rat)	LD50(skin, rabbit)	LD50 (oral, mouse)	LC50 (inhalation, mouse)
Formaster	n.d.	>2000 mg/kg	>670 mg/kg	1.1 mg/litre; 4h
Formaldehyde	500-800 mg/Kg	n.d.	n.d.	n.d.
Paraformaldehyde	592 mg/kg	n.d.	n.d.	n.d.

SECTION 12 ECOLOGICAL INFORMATION

12.1 TOXICITY: Use according to good working practice, do not release in the environment.

Substance	EC50 (Aquatic invertebrates)	EC50 (fish)
Paraformaldehyde	42 mg/l 24h	> 10 mg/l 96h

12.2 PERSISTENCE AND DEGRADABILITY:

Paraformaldehyde: the product is readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL: No information is available for this product.

12.4 MOBILITY IN SOIL: no information is available for this item.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT: The product, to the best of our knowledge, does not contain any components considered to be persistent/bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6 Endocrine-disrupting properties:

Evaluation: The product does not contain components considered to have endocrine-disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

12.7 Other adverse effects: n.d.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHOD

Residue handling: Product residues, any expired packaging, soiled containers must be disposed of in accordance with current local and national regulations (ref. Lgs Dec 152/2006 and Lgs Dec 205/2010 as

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)

Ph. +39 0523 753732

VAT ID: IT 01193020334

PRODUCTION WORKSHOPS n. 296

Via Veratto, 29010 Santimento di Rottofreno (PC)

Ph.: +39 0523 781664

E-mail: info@formaster-italy.com

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

amended and supplemented).

Disposal of empty containers: empty containers should be disposed in accordance with local and national regulations. Do not release empty containers in the environment.

SECTION 14 TRANSPORT INFORMATION

14.1 UN NUMBER: UN 2213

14.2 UN PROPER SHIPPING NAME: PARAFORMALDEHYDE

14.3 TRANSPORT HAZARD CLASSES:

ADR: 4.1 Tunnel restriction code: (D/E)

RID: 4.1

ADNR: 4.1

IMGD: 4.1

IATA/CAO: 4.1

14.4 PACKING GROUP:

ADR: III

RID: III

ADNR: III

IMGD: III

IATA/CAO: III

14.5 ENVIRONMENTAL HAZARDS: see other sections

MARINE POLLUTANT:NO

14.6 SPECIAL PRECAUTIONS FOR USERS: see other sections

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND CODE IBC: n.a.

SECTION 15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE:

- Regulation (EC) No. 1907/2006 (REACH) and subsequent amendments and supplements
- Regulation (EC) No. 1272/2008 (CLP), as amended, for adaptation to technical (ATP) and scientific progress
- Directive 2008/68/EC as amended for the purposes of adaptation to technical progress (inland transport of dangerous goods)
- (It.) Legislative Decree 152/06 et seq. (Environmental regulations)
- Directive 2008/98/EC (Waste)
- Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831 (occupational exposure limits)
- Regulation EC 648/2004 (Detergents)
- (It.) Legislative Decree 81/08 (Occupational Health and Safety Act)

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)

Ph. +39 0523 753732

VAT ID: IT 01193020334

PRODUCTION WORKSHOPS n. 296

Via Veratto, 29010 Santimento di Rottofreno (PC)

Ph.: +39 0523 781664

E-mail: info@formaster-italy.com

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

Authorisations and/or restrictions on use	
REACH - Restrictions on the Manufacture, Marketing and Use of Certain Hazardous Substances, Preparations and Articles (Annex XVII)	Formaldehyde

15.2 CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment was not carried out.

SECTION 16 OTHER INFORMATION

16.1 INFORMATION ON TRAINING:

ACRONYMS:

EC50 - effective concentration
LC50 - lethal concentration
LD50 - lethal dose
OEL - Occupational Exposure Limit
PPE - personal protective equipment
PBT - Persistent, Bioaccumulative and Toxic
vPvB - Very persistent and very bioaccumulative
NOEC - no observed effect concentration
PNEC - predicted no effect concentration
STEL - short-term exposure limit
TLV - threshold limit value
TWA - time-weighted average
n.a. - not applicable
n.d. - not determined

Text of the hazard statements (H) cited in sections 2-3 of the data sheet:

Carc. 1B	Carcinogenicity, category 1B
Muta. 2	Germ cell mutagenicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitisation, category 1
H350	May cause cancer.
H341	Suspected of causing genetic defects.
H228	Flammable solid
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation.

This data sheet cancels and replaces any previous edition.

FORMASTER

di Emanuela Magnani & C. s.a.s.
CHEMICAL PRODUCTS
ZOOTECHNICAL DISINFECTANTS

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878, in its valid version

Via Zanella, 3 - 29121 - Piacenza (PC)

Ph. +39 0523 753732

VAT ID: IT 01193020334

PRODUCTION WORKSHOPS n. 296

Via Veratto, 29010 Santimento di Rottofreno (PC)

Ph.: +39 0523 781664

E-mail: info@formaster-italy.com

FORMASTER Fumigant Disinfectant

Creation Date: 06/06/2024 | Version number 1.0

Date: May/2024

Reference bibliography: European Chemicals Bureau (ECB- www.ecb.jrc.it)

European chemical Substance Information System (ESIS – www.ecb.jrc.it/esis) A.C.G.I.H. (www.acgih.org) –

N.I.O.S.H. (www.cdc.gov/niosh/) U.E. (www.europa.eu/index_it.htm) – I.A.R.C. (www.iarc.fr) – N.T.P.

(www.ntp.niehs.nih.gov)

The information is given in good faith and in the present state of our knowledge.

The fulfilment of the information contained in this safety data sheet does not exempt the user of the product from the overall compliance with the laws, regulations and administrative provisions relating to the product, the safety, health and the environment, which is his sole responsibility. In the case of mixtures and combinations with other substances, make sure not to give rise to other risks.