

SAFETY DATA SHEET

Tammermatic BIOCAT

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 15.06.2021

1.1. Product identifier

Product name	Tammermatic BIOCAT
Article no.	5401704
Product definition	Nutrient solution for Biojet system
Information on the packaging	Type of packaging: Jug Size of packaging: 20 L Material of packaging: Plastic: HDPE

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Tammermatic Oy
Postal address	Tesoman Valtatie 28
Postcode	33300
City	TAMPERE
Telephone number	401993550
Email	jukka.tervakoski@tammermatic.fi
Website	www.tammermatic.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: Puhelin: 09-4711 (vaihde), 09-471977 (suora) Description: Kuvaus: Myrkytystietokeskus, Tukholmankatu 17, PL 790, 00029 HUS (Helsinki), (24 h)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, comments	None.
CLP classification, notes	None.
Substance / mixture hazardous properties	None.

2.2. Label elements

2.3. Other hazards

Other hazards	None.
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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Composition type	Mixture			
Substance	Identification	Classification	Contents	Notes
UREA	EC No.: 200-315-5 REACH Reg. No.: 01-2119463277-33		5 – 10 %	

SECTION 4: First aid measures

4.1. Description of first aid measures

General	No recommendation given.
Inhalation	No specific first aid measures noted.
Skin contact	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical advice/attention if you feel unwell.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Fight fire with normal precautions from a reasonable distance.
Improper extinguishing media	Not known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Nitrous gases (NO _x).
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5.3. Advice for firefighters

Personal protective equipment	Wear protective gloves / protective clothing / eye protection / face protection.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Collect spillage. Collect spillage.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into water courses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Containment	Absorb with sand or other inert absorbent.
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6.4. Reference to other sections

Other instructions	None.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid prolonged skin contact.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in closed original container in a dry place.
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7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
UREA			
DNEL / PNEC			
Substance	UREA		
DNEL	Group: Professional Route of exposure: Acute dermal (local) Value: 580 mg/kg		
	Group: Professional Route of exposure: Acute inhalation (local) Value: 292 mg/m ³		
PNEC	Route of exposure: Freshwater Value: 0,047 mg/l		

Route of exposure: Saltwater
Value: 0,047 mg/l

8.2. Exposure controls

Eye / face protection

Required Properties

Wear approved, tight fitting safety glasses where splashing is probable.

Hand protection

Skin- / hand protection, short term contact

Protective gloves must be used if there is a risk of direct contact or splash.

Respiratory protection

Respiratory protection, general

Not determined.

Respiratory protection necessary at

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Physical state	Fluid.
Colour	Greenish.
pH	Status: In delivery state Value: 6,5 – 7,5
Melting point / melting range	Reason for waiving data: No data.
Freezing point	Reason for waiving data: No data.
Boiling point / boiling range	Reason for waiving data: No data.
Flash point	Reason for waiving data: No data.
Evaporation rate	Reason for waiving data: No data.
Lower explosion limit with unit of measurement	Reason for waiving data: No data.
Upper explosion limit with units of measurement	Reason for waiving data: No data.
Explosion limit	Reason for waiving data: No data.
Relative density	Value: 1,05
Density	Reason for waiving data: No data.
Bulk density	Reason for waiving data: No data.
Solubility	Medium: Water
Partition coefficient: n-octanol/ water	Reason for waiving data: No data.

Auto-ignition temperature	Reason for waiving data: No data.
Decomposition temperature	Reason for waiving data: No data.
Viscosity	Reason for waiving data: No data.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	None.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid	Not known.
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10.5. Incompatible materials

Materials to avoid	No information.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Nitrogen. Carbon. Ammonia or amines.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: 8471 mg/kg Species: Rotta
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11.2 Other information

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Comments: No data recorded.
Aquatic toxicity, algae	Comments: No data recorded.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility	The product is soluble in water.
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12.5. Results of PBT and vPvB assessment

12.6. Endocrine disrupting properties

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Confirm disposal procedures with environmental engineer and local regulations.
Appropriate methods of disposal for the contaminated packaging	Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: Transport information

Dangerous goods	No
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14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Comments	None.
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14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

SECTION 16: Other information

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