

TMS M

REVISION DATE 01-02-2020, Version 1

1. Identification of the substance/preparation and of the company/undertaking

1.1 Trade name: TMS® M**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Product Category: Organic lime fertilizer

Application of the substance / the preparation: In soil and foliar

1.3 Details of the supplier of the safety data sheet

Manufacture / Supplier:

Jadis Additiva Agri b.v.

Schie 38

3111 PN Schiedam, Nederland

info@jadis-agri.com**1.4 Emergency telephone number:**

Telephone : +31 10 273 1789

Mobile number : +31 6 19160366

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 N/A

Hazard pictograms N/A

Signal word N/A

Hazard pictograms N/A

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

No specific hazards are encountered under normal product use

3. Composition/information ingredients

3.1 Chemical characterization:

CAS calciumcarbonat No. 471 - 34 - 1

EINECS No. 207 - 439 - 9

4. First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

Information for doctor: No special measures required

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

No further relevant information available.

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

No further relevant information available.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

No special measures required.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

7. Handling and storage

7.1 Precautions for safe handling

No special measures required.

Information about fire - and explosion protection:

No special measures required

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool, dry environment (no more than 35°C) avoiding cross contamination with other products. Store the original container, out of reach of children and preferably in a locked storage area.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.

7.3 Specific end use(s):

No further relevant information available

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8. Exposure controls/ personal protection

Additional information about design of technical facilities: No further data; see item 7

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS calciumcarbonat No. 471 - 34 – 1

Limit value Long term value: 10 mg / m³

Additional information: The lists valid during the making were used as basis

8.2 Exposure controls

Personal protective equipment:

The usual precautionary measures are to be adhered to when handling chemicals

General protective and hygienic measures:

Respiratory protection: Not required.

Protection of hands: Gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/the preparation the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Not required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	TMS M
Appearance	Powder micronized
Form	Powder
Color	Beige
Odor	Oderless
Odour threshold	N/A
pH at 20°C	9,5
Change in condition	
Melting point/Melting range:	825°C
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.

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Upper:	Not determined.
Vapour pressure at 20°C:	0 hPa
Density at 20°C:	2,7 g/cm ³
Bulk density	200-300 kg/m ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in/Miscibility with water by 20 °C :	0,013 g/l
Volatile organic compounds	0,0 %
Solid content	100%

9.2 Other information

No further relevant information available.

Shelf life Min 24 months at room temperature (No more than 35°C)

10. Stability and reactivity

10.1 Reactivity:

No further relevant information available.

10.2 Chemical stability:

Product is stable under normal conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Do not store at temperature higher than 35°C.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known

11. Toxicological information

11.1 Information on toxicological effects

Acute toxiciteit: Indelingsrelevantie LD/LC50-waarden:

471-34-1 calciumcarbonaat Oral LD50 6450 mg/kg (rat)

Primary irritant effect:

on the skin:

Based on available data; the classification criteria are not satisfied

on the eye:

Based on available data; the classification criteria are not satisfied

Sensitization:

Based on available data; the classification criteria are not satisfied

Chronic effects:

Based on available data; the classification criteria are not satisfied

Mutagenicity:

Based on available data; the classification criteria are not satisfied

Carcinogenicity:

Based on available data; the classification criteria are not satisfied

Reproductive toxicity:

Based on available data; the classification criteria are not satisfied

Specific Target Organ Toxicity (STOT)

- single exposure:

Based on available data; the classification criteria are not satisfied

Specific Target Organ Toxicity (STOT)

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- repeated exposure:	Based on available data; the classification criteria are not satisfied
Aspiration hazard:	Not classified
NTP (National Toxicology Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

This product does not contain toxicologically relevant substances

12. Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

Behaviour in environmental systems: No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

13. Transport information

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste

Uncleaned packaging

Recommendation Disposal must be made according to official regulations.

Recover if possible.

Waste disposal method Incineration or sanitary landfill in accordance to local, state and federal regulations.

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14. Informatie met betrekking tot het vervoer

14.1 UN-Number

ADR, ADN, IMDG, IATA Not classified as Dangerous Goods

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Not classified as Dangerous Goods

14.3 Transport hazard class(es)ADR, ADN, IMDG, IATA
Class Not classified as Dangerous Goods**14.4 Packing group**

ADR, IMDG, IATA Not classified as Dangerous Goods

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code Not applicable.

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture**DIRECTIVE 2012/18/EU control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC- ANNEX I:** The substance is not present**15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

The product is non-dangerous. Under normal conditions of use, the product must not have any harmful effects on human, animal, plant or environmental health

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This SDS cancels and replaces any preceding release.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and very Bioaccumulative