

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Antifreeze Agent MO 4

Print date: 18.03.2020

Product code: 30.222.100

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

1.1. Product identifier

Antifreeze Agent MO 4

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

Use of the substance/mixture

Building and construction preparations not covered elsewhere.

1.3. Details of the supplier of the safety data sheet

Company name:	MTC GmbH	
Street:	Adolf - Oesterheld - Straße 1	
Place:	D-97337 Dettelbach	
Post-office box:	80	
	D-97337 Dettelbach	
Telephone:	+49(0)932491910	Telefax: +49(0)9324919155
e-mail:	info@mtc-chemie.com	
Internet:	www.mtc-chemie.com	

1.4. Emergency telephone number:

+49(0)932491910

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This mixture is not classified as hazardous in accordance with Directive 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes serious eye damage.

2.2. Label elements

Hazard components for labelling

calcium nitrate

Signal word: Danger

Pictograms: GHS05



Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
233-332-1	calcium nitrate	25 - 50 %
10124-37-5	O - Oxidizing, Xi - Irritant R08-36	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
01-2119495093-		

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

In case of fire may be liberated:

Nitrogen oxides (NOx).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
It is recommended to design all work processes always so that the following is excluded: inhalation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

Do not store together with: Acid. Nitrite. Oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Hand protection

Hand protection: Single-use gloves.
Suitable material: NBR (Nitrile rubber).
Breakthrough times and swelling properties of the material must be taken into consideration.

Eye protection

Suitable eye protection: Tightly sealed safety glasses.

Skin protection

Suitable protective clothing: Overall. Boots.

Environmental exposure controls

Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid:
Colour:	yellow
Odour:	characteristic

	Test method
pH-Value (at 20 °C):	6,5 ± 1
Changes in the physical state	
Initial boiling point and boiling range:	100 °C

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Sublimation point: not applicable

Flash point: not applicable

Flammability

Solid: not applicable

Lower explosion limits: not applicable

Auto-ignition temperature

Solid: not applicable

Density: 1,34 ± 0,03 g/cm³

Water solubility: completely miscible

Solvent content: 0 %

9.2. Other information

Solid content: 59,00 %

SECTION 10: Stability and reactivity

10.3. Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

acid.
Nitrites.
Oxidizing agents, strong.

10.6. Hazardous decomposition products

Hydrocyanic acid (hydrocyanic acid).
Sulfur oxides.
Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name				
	Exposure route	Method	Dose	Species	Source
10124-37-5	calcium nitrate				
	oral	LD50	2000 mg/kg	Rat	ECHA

Irritation and corrosivity

Irritant effect on the skin:
species: Rabbit.
Evaluation: Not an irritant.
Irritant effect on the eye:
species: Rabbit.
Evaluation: Not an irritant.

Sensitising effects

sensitizing.

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species: Guinea-pig.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Further information

Data arise from reference works and literature.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
10124-37-5	calcium nitrate					
	Acute fish toxicity	LC50	1378 mg/l	96 h		
	Acute algae toxicity	ErC50	1700 mg/l	96 h		
	Acute crustacea toxicity	EC50	490 mg/l	48 h		

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

Not a hazardous material with respect to transportation regulations.

Inland waterways transport (ADN)

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Other applicable information (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

Not a hazardous material with respect to transportation regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information

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

EU regulatory information

1999/13/EC (VOC): 0 %

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

* Data changed compared with the previous version

Relevant R phrases (number and full text)

08 Contact with combustible material may cause fire.
36 Irritating to eyes.

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
H318 Causes serious eye damage.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)