

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Antifreeze Agent MO 1**

Print date: 18.03.2020

Product code: 30.220.100

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Antifreeze Agent MO 1

**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:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed.

Harmful if inhaled.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Hazard components for labelling**

sodium thiocyanate

Signal word: Warning

Pictograms: GHS07

**Hazard statements**

H302+H332

Harmful if swallowed or if inhaled.

H412

Harmful to aquatic life with long lasting effects.

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### Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## 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		
208-754-4	sodium thiocyanate	50 - < 55 %
540-72-7		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 3; H332 H312 H302 H412 EUH032	

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:

Hydrocyanic acid (hydrocyanic acid).

Sulfur oxides.

Nitrogen oxides (NOx).

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**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.

**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.

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid:
Colour:	transparent cloudy
Odour:	characteristic

**Test method**

pH-Value (at 20 °C):	6 ± 1
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**Changes in the physical state**

Initial boiling point and boiling range:	100 °C
Sublimation point:	not applicable
Flash point:	not applicable

**Flammability**

Solid:	not applicable
Lower explosion limits:	not applicable

**Auto-ignition temperature**

Solid:	not applicable
Density:	1,27 ± 0,03 g/cm³
Water solubility:	completely miscible
Solvent content:	0 %

**9.2. Other information**

Solid content:	49,00 %
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**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**

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## Acute toxicity

CAS No	Chemical name				
	Exposure route	Method	Dose	Species	Source
540-72-7	sodium thiocyanate				
	oral	LD50	764 mg/kg	Rat	RTECS
	dermal	ATE	1100 mg/kg		
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		

## 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.

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
540-72-7	sodium thiocyanate				
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Pimephales promelas

## 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).

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**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)****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****Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

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#### 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.

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