

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: THERMISOL AG M 50 N

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

Identified uses: Antifreeze/coolant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTES, S.A.U.

Ferralla 27

08755 Castellbisbal (Barcelona)

Telephone: +34 902217171 / +34 935475859

Contact Person: FUCHS LUBRICANTES, S.A.U. Seguridad de Producto

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**1.4 Emergency telephone number:** +34 902217171 / +34 935475859

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

**Health Hazards** 

Specific Target Organ Toxicity - Category 2 H373: May cause damage to organs through

Repeated Exposure prolonged or repeated exposure.

**Hazard summary** 

Physical Hazards: No data available.

2.2 Label Elements

Contains: Ethanediol

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**Signal Words:** Warning

**Hazard Statement(s):** H373: May cause damage to organs through prolonged or repeated

exposure.

**Precautionary Statements** 

Prevention: P260: Do not breathe dust/fume/gas/mist/vapours/spray.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

> hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the

environment without control.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

General information: Mineral oil free mixture of corrosion preventive agents and glycols. This

product is applied only as solution or emulsion in water.

Chemical name	Identifier		REACH Registration No.	Notes
Ethanediol	EINECS: 203-473-3	25,00 - <50,00%	01-2119456816-28	
disodium tetraborate	EINECS: 215-540-4	0,30 - <1,00%	01-2119490790-32	**

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### Classification

Chemical name	Identifier	Classification	
Ethanediol	EINECS: 203-473-3	CLP:	Acute Tox. 4;H302, STOT RE 2;H373
disodium tetraborate	EINECS: 215-540-4	CLP:	Repr. 1B;H360FD, Eye Irrit. 2;H319

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

## **SECTION 4: First aid measures**

General: Change clothes and shoes contaminated or soaked by the product. Never

put rags contaminated by the product into clothing pockets.

## 4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

<sup>\*\*</sup> Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List



Promptly wash eyes with plenty of water while lifting the eye lids. Eye contact:

**Skin Contact:** Wash with soap and water. The product is not skin irritating.

Ingestion: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and

delayed:

Symptoms of poisoning may even occur after several hours; therefore

medical observation for at least 48 hours after the accident.

4.3 Indication of any immediate medical attention and special treatment needed

Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Get medical attention if symptoms occur.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting

procedures:

No data available.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil

barriers).

6.3 Methods and material for containment and cleaning Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

up:

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on

disposal.

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Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

## SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

7.2 Conditions for safe storage,

including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Store above freezing. Prevent formation of aerosols.

7.3 Specific end use(s):

Not applicable

Storage Class:

12, Non-combustible liquids

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control Parameters**

**Occupational Exposure Limits** 

Chemical name	Туре	Exposure Limit Values		Source
Ethanediol - Vapor.	TWA	20 ppm	52 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Ethanediol - Vapor.	STEL	40 ppm	104 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Ethanediol - Particulate.	TWA		10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
disodium tetraborate	TWA		5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

#### 8.2 Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**General information:** Wash hands before breaks and after work. Use personal protective

equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.

**Eye/face protection:** Safety glasses (EN 166) recommended during refilling.

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Skin protection

**Hand Protection:** Material: Nitrile-butadiene rubber (NBR).

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

**Other:** Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Seek advice from local supervisor. Ensure good ventilation/exhaustion at

the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards: Not known.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

**Environmental Controls:** No data available.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: Green

Odor: Characteristic

Odor Threshold:Not applicable for mixturespH:7,5 - 9,0 (DIN 51369)

Freezing point: Not applicable for mixtures

**Boiling Point:**  $100 \, ^{\circ}\text{C}$  **Flash Point:**  $> 110 \, ^{\circ}\text{C}$ 

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas):

Value not relevant for classification

Vapor pressure:Not applicable for mixturesVapor density (air=1):Not applicable for mixtures

**Density:** 1,07 - 1,09 g/cm3 (20 °C) (DIN 51757)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature:Value not relevant for classificationDecomposition Temperature:Value not relevant for classification

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Flow time Value not relevant for classification

Explosive properties: Value not relevant for classification

Oxidizing properties: Value not relevant for classification

**9.2 Other information**No data available.

### **SECTION 10: Stability and reactivity**

**10.1 Reactivity:** Stable under normal temperature conditions and recommended use.

**10.2 Chemical Stability:** No data available.

10.3 Possibility of hazardous

reactions:

None under normal conditions.

**10.4 Conditions to avoid:** Avoid heat or contamination.

**10.5 Incompatible Materials:** Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

#### SECTION 11: Toxicological information

Information on likely routes of exposure

**Inhalation:** No data available.

Ingestion: Harmful if swallowed.

**Skin Contact:** No data available.

Eye contact: No data available.

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Oral

**Product:** ATEmix: 3.555 mg/kg

Specified substance(s)

Ethanediol LD 50 (Human): 1.600 mg/kg

disodium tetraborate LD 50 (Rat): 2.660 mg/kg

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Specified substance(s)

Ethanediol LD 50 (Mouse): 3.500 mg/kg

disodium tetraborate LD 50 (Rat): > 10.000 mg/kg

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Inhalation Product:

Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation:** 

**Product:** Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:

**Product:** Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Ethanediol

No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity** 

**Product:** Based on available data, the classification criteria are not met.

Carcinogenicity

**Product:** Based on available data, the classification criteria are not met.

Reproductive toxicity

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** Based on available data, the classification criteria are met.

**Aspiration Hazard** 

**Product:** Based on available data, the classification criteria are not met.

Other adverse effects: No data available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Acute toxicity

**Product:** Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Ethanediol LC 50 (Fish, 96 h): 72.860 mg/l

disodium tetraborate LC 50 (Fish, 96 h): 74 mg/l

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Aquatic Invertebrates Specified substance(s)

Ethanediol EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

disodium tetraborate EC 50 (Water Flea, 48 h): 1.085 - 1.400 mg/l

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Ethanediol NOEC (Fish, 7 d): 15.380 mg/l

Aquatic Invertebrates Specified substance(s)

Ethanediol NOEC (Water Flea, 7 d): 8.590 mg/l

Toxicity to Aquatic Plants Specified substance(s)

disodium tetraborate EC 50 (Alga, 96 h): 158 mg/l

12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

Specified substance(s)

Ethanediol > 90 % (10 d, OECD 301A) The product is easily biodegradable.

12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** No data available.

**Water Hazard Class** 

(WGK):

WGK 1: slightly water-endangering.

**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**European Waste Codes** 

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**Unused product:** 14 06 03\*: other solvents and solvent mixtures

### **SECTION 14: Transport information**

## ADR/RID 14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Non-dangerous goods Label(s): Hazard No. (ADR): Tunnel restriction code: 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: ADN 14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Non-dangerous goods Label(s): 14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: **IMDG** 14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Non-dangerous goods Label(s): EmS No .: 14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: **IATA** 14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): Class: Non-dangerous goods Label(s): 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

## **SECTION 15: Regulatory information**

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

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**EU Regulations** 

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

**National Regulations** 

Local regulations are to be kept

**Water Hazard Class** 

(WGK):

WGK 1: slightly water-endangering.

15.2 Chemical safety

assessment:

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

**Revision Information:** Vertical lines in the margin indicate an amendment.

### Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated

exposure.

Other information: The classification complies with the current EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the

application of the conventional method.

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**Disclaimer:** The data contained in this safety data sheet are based on our current

knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case

products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no

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