



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

**1.1 Product identifier**

**Sparbeize Sorte NFS**  
**Article number 17 00 14**

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

**1.2.1 Relevant uses**

See product designation

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

**Company**

ITW Test & Measurement GmbH  
Boschstraße 10  
73734 Esslingen a. Neckar / GERMANY  
Phone 0800 707 6273  
Fax 0800 707 6274  
Homepage [www.buehler-met.de](http://www.buehler-met.de)  
E-mail [info.uk@buehler.com](mailto:info.uk@buehler.com)

**Address enquiries to**

**Technical information**

[info.uk@buehler.com](mailto:info.uk@buehler.com)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

**1.4 Emergency telephone number**

**Company**

0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Flam. Liq. 3: H226 Flammable liquid and vapour.  
Carc. 2: H351 Suspected of causing cancer.  
Repr. 2: H361d Suspected of damaging the unborn child.  
Eye Dam. 1: H318 Causes serious eye damage.  
STOT SE 3: H336 May cause drowsiness or dizziness.  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.



## 2.2 Label elements

The product is required to be labelled in accordance with GHS/CLP-Directives.

### Hazard pictograms



### Signal word

DANGER

### Contains:

Thiourea

1-methoxy-2-propanol

Alcohol C13 iso, ethoxylated

### Hazard statements

H226 Flammable liquid and vapour.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P201 Obtain special instructions before use.

P308+P313 IF exposed or concerned: Get medical advice / attention.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours / spray.

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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Other hazards

### Physico-chemical hazards

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### Environmental hazards

The product/the substance has the Water Hazard Class 3.

Does not contain any PBT or vPvB substances.

### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### Product-type:

The product is a mixture.

Range [%]	Substance
30 - 50	1-methoxy-2-propanol
	CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
3 - < 5	Alcohol C13 iso, ethoxylated
	CAS: 9043-30-5, EINECS/ELINCS: 500-027-2
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302
2,5 - < 5	Thiourea
	CAS: 62-56-6, EINECS/ELINCS: 200-543-5, EU-INDEX: 612-082-00-0
	GHS/CLP: Carc. 2: H351 - Repr. 2: H361d - Acute Tox. 4: H302 - Aquatic Chronic 2: H411, M = 1

### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.



#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
<b>Ingestion</b>	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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

Headache  
Drowsiness  
Vertigo

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

If swallowed or in the event of vomiting, risk of product entering the lungs.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Dry powder. Water spray jet. Alcohol-resistant foam. Carbon dioxide.
<b>Extinguishing media that must not be used</b>	Full water jet.

##### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Sulphur oxides (SO<sub>x</sub>).  
Nitrogen oxides (NO<sub>x</sub>).

##### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.  
Wear suitable protective equipment. For personal protection see SECTION 8.

##### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.  
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

##### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance with the regulations.



#### 6.4 Reference to other sections

See SECTION 8+13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
 Provide suitable vacuuming at the processing machines.  
 Use solvent-resistant equipment.  
 Avoid spilling or spraying in enclosed areas.  
 Avoid contact with eyes and skin. Use personal protective equipment.  
 Take precautionary measures against static discharges.  
 Keep away from open flames, hot surfaces and sources of ignition.  
 Use explosion-proofed equipment/fittings and non-sparking tools.  
 Vapours can form an explosive mixture with air.  
 Ignitable mixtures can be formed in the empty container.  
 Do not eat, drink, smoke or take drugs at work.  
 Keep away from food and drink.  
 After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
 Take off contaminated clothing and wash before reuse.

#### 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
 Keep only in original container.  
 Do not store together with oxidizing agents.  
 Do not store together with food and animal food/diet.  
 Keep container tightly closed.  
 Keep container in a well-ventilated place.  
 Protect from heat/overheating.  
 Protect from sun.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

##### Ingredients with occupational exposure limits to be monitored (GB)

Substance
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3
Long-term exposure: 100 ppm, 375 mg/m <sup>3</sup> , Sk
Short-term exposure (15-minute): 150 ppm, 560 mg/m <sup>3</sup>

##### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3
Eight hours: 100 ppm, 375 mg/m <sup>3</sup> , H
Short-term (15-minute): 150 ppm, 563 mg/m <sup>3</sup>



## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Tightly fitting goggles. (EN 166:2001)
<b>Hand protection</b>	> 0,4 mm: Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Light protective clothing of plastic material.
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter AB. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Color</b>	brown
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	No information available.
<b>pH-value [1%]</b>	No information available.
<b>Boiling point [°C]</b>	No information available.
<b>Flash point [°C]</b>	55
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	No information available.
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	miscible
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Autoignition temperature [°C]</b>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.

### 9.2 Other information

none



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

### **10.1 Reactivity**

No dangerous reactions known if used as directed.

### **10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

### **10.3 Possibility of hazardous reactions**

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.  
Reactions with oxidizing agents.

### **10.4 Conditions to avoid**

See SECTION 7.2.

### **10.5 Incompatible materials**

Oxidizing agent

### **10.6 Hazardous decomposition products**

No dangerous reactions known if used as directed.  
In the event of fire: See SECTION 5.



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Substance
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit: 14000 mg/kg.
LD50, oral, Rat: 5200 mg/kg.
LC50, inhalative, Rat: 54,6 mg/l (4h).
Thiourea, CAS: 62-56-6
LD50, dermal, Rabbit: > 2000 mg/kg (Lit.).
LD50, oral, Rat: 1750 mg/kg (Lit.).

<b>Serious eye damage/irritation</b>	Toxicological data of complete product are not available. Risk of serious damage to eyes. Calculation method
<b>Skin corrosion/irritation</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity — single exposure</b>	Toxicological data of complete product are not available. Vapours may cause drowsiness and dizziness. Calculation method
<b>Specific target organ toxicity — repeated exposure</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Reproduction toxicity</b>	This product contains one or more substance(s) of categorie Repr. 2 (CLP). Suspected of damaging the unborn child. Calculation method
<b>Carcinogenicity</b>	This product contains one or more substance(s) of categorie Carc. 2 (CLP). Suspected of causing cancer. Calculation method
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>General remarks</b>	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
1-methoxy-2-propanol, CAS: 107-98-2
LC50, (96h), Leuciscus idus: 4600 mg/l.
EC50, Bacteria: > 1000 mg/l.
EC50, Pseudokirchneriella subcapitata: > 1000 mg/l (168 h).
EC50, (48h), Daphnia magna: 23300 mg/l.
Thiourea, CAS: 62-56-6
LC50, (96h), Danio rerio: 10000 mg/l (Lit.).
EC50, (48h), Daphnia magna: 35 mg/l (IUCLID).
IC50, (72h), Desmodemus subspicatus: 3,8 - 10 mg/l (IUCLID).



## 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	No information available.

## 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Other adverse effects

Ecological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the authorities if necessary.

#### Waste no. (recommended)

070704\*

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150110\*  
150101  
150102  
150104

## SECTION 14: Transport information

### 14.1 UN number

**Transport by land according to ADR/RID** 1263

**Inland navigation (ADN)** 1263

**Marine transport in accordance with IMDG** 1263

**Air transport in accordance with IATA** 1263



**14.2 UN proper shipping name**

Transport by land according to ADR/RID Paint

- Classification Code F1

- Label 

- ADR LQ 5 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN) Paint

- Classification Code F1

- Label 

Marine transport in accordance with IMDG Paint

- EMS F-E, S-E

- Label 

- IMDG LQ 5 I

Air transport in accordance with IATA Paint

- Label 

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

**14.4 Packing group**

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

No information available.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EEC-REGULATIONS** 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (1999/13/CE)** 40 %

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H318 Causes serious eye damage.  
 H336 May cause drowsiness or dizziness.  
 H226 Flammable liquid and vapour.  
 H411 Toxic to aquatic life with long lasting effects.  
 H302 Harmful if swallowed.  
 H361d Suspected of damaging the unborn child.  
 H351 Suspected of causing cancer.



## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified Chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)  
Carc. 2: H351 Suspected of causing cancer. (Calculation method)  
Repr. 2: H361d Suspected of damaging the unborn child. (Calculation method)  
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)  
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)



**Modified position**

SECTION 2 been added: The product is required to be labelled in accordance with GHS/CLP-Directives.

SECTION 2 deleted: The product is classified and required to be labelled in accordance with EC-Directives

SECTION 2 been added: P308+P313 IF exposed or concerned: Get medical advice / attention.

SECTION 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6 deleted: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

SECTION 6 been added: Wear suitable protective equipment. For personal protection see SECTION 8.

SECTION 6 been added: In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 7 been added: Avoid spilling or spraying in enclosed areas.

SECTION 7 been added: Protect from sun.

SECTION 8 been added: Short term: filter apparatus, filter AB. (DIN EN 14387)

SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

SECTION 8 deleted: Safety glasses. (EN 166:2001)

SECTION 8 been added: Tightly fitting goggles. (EN 166:2001)

SECTION 8 deleted: Short term: filter apparatus, filter A. (DIN EN 14387)

SECTION 9 been added: not applicable

SECTION 9 deleted: No information available.

SECTION 11 been added: Toxicological data of complete product are not available.

SECTION 11 been added: Suspected of damaging the unborn child.

SECTION 11 been added: Calculation method

SECTION 11 been added: Calculation method

SECTION 12 been added: Ecological data of complete product are not available.

SECTION 15 been added: yes

SECTION 15 deleted: no

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