



**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**

Pickling agent

**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 +49(0)711 4904690-0  
Homepage [www.buehler-met.de/](http://www.buehler-met.de/) [www.buehler.fr/](http://www.buehler.fr/) [www.buehler.co.uk](http://www.buehler.co.uk)  
E-mail [lab.eu@buehler.com](mailto:lab.eu@buehler.com)

**Address enquiries to**

**Technical information**

[lab.eu@buehler.com](mailto:lab.eu@buehler.com)

**Safety Data Sheet**

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

**1.4 Emergency telephone number**

**Company**

Global Access Code: 334545  
Americas: +1 760 476 3962  
Middle East/Africa: +1 760 476 3959  
UK: +44 8 08 189 0979  
Europe: +1 760 476 3961  
Asia Pacific: +1 760 476 3960

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

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 regulation (EC) No 1272/2008 (CLP).

### Hazard pictograms



### Signal word

DANGER

### Contains:

1-methoxy-2-propanol

Isotridecan-1-ol

Thiourea

### 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

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
24 - 40	1-methoxy-2-propanol
	CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
3 - 5	Isotridecan-1-ol
	CAS: 27458-92-0, EINECS/ELINCS: 248-469-2
	GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318
1 - 3	Thiourea
	CAS: 62-56-6, EINECS/ELINCS: 200-543-5, EU-INDEX: 612-082-00-0, Reg-No.: 01-2119977062-37-XXXX
	GHS/CLP: Carc. 2: H351 - Repr. 2: H361d - Acute Tox. 4: H302 - Aquatic Chronic 2: H411

### Comment on component parts

For full text of H-statements: see SECTION 16.

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.



#### 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>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
<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 within 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.  
Place the container in an upright position and protect it against falling over.  
Open and handle container with care.

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>

#### DNEL

Substance
1-methoxy-2-propanol, CAS: 107-98-2
Industrial, dermal, Long-term - systemic effects: 183 mg/kg bw/day.
Industrial, inhalative (vapor), Acute - local effects: 553,5 mg/m <sup>3</sup> .
Industrial, inhalative (vapor), Acute - systemic effects: 553,5 mg/m <sup>3</sup> .
Industrial, inhalative (vapor), Long-term - systemic effects: 369 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 33 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 78 mg/kg bw/day.
general population, inhalative (vapor), Long-term - systemic effects: 43,9 mg/m <sup>3</sup> .
Thiourea, CAS: 62-56-6
Industrial, dermal, Long-term - systemic effects: 3,4 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 1 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,1 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 1,7 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 0,2 mg/m <sup>3</sup> .

#### PNEC

Substance
1-methoxy-2-propanol, CAS: 107-98-2
seawater, 1 mg/L.
sediment (seawater), 5,2 mg/kg.
sediment (freshwater), 52,3 mg/kg.
freshwater, 10 mg/L.
soil, 4,59 mg/kg.
sewage treatment plants (STP), 100 mg/L.
Thiourea, CAS: 62-56-6
soil, 2,725 mg/kg dw (AF=50).
seawater, 0,007 mg/kg sediment dw.
sediment (freshwater), 0,072 mg/kg sediment dw.
sewage treatment plants (STP), 0,38 mg/l (AF= 1).
seawater, 0,001 mg/l (AF= 100).
freshwater, 0,01 mg/l (AF= 10).



## 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>	Protective clothing (EN 340)
<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>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	not applicable
<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>	54 - 55 (1013 mbar)
<b>Flash point [°C]</b>	45 (DIN EN 22719)
<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

Product
ATE-mix, oral, > 2000 mg/kg.
Substance
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit: 13500 mg/kg bq.
LD50, oral, Rat: 5000 mg/kg bw.
LC50, inhalative, Rat: 6 mg/L (4h).
Thiourea, CAS: 62-56-6
LD50, dermal, Rabbit: 2800 mg/kg bw.
LD50, oral, Rat: 1750 mg/kg bw.
NOAEL, dermal, 172 mg/kg bw/d.
NOAEC, inhalative, 12,13 mg/m <sup>3</sup> .
Isotridecan-1-ol, CAS: 27458-92-0
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 300 - 2000 mg/kg.

<b>Serious eye damage/irritation</b>	Risk of serious damage to eyes. Calculation method
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Vapours may cause drowsiness and dizziness. Calculation method
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Suspected of damaging the unborn child. Calculation method
<b>Carcinogenicity</b>	Suspected of causing cancer. Calculation method
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	

Toxicological data of complete product are not available.  
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: >4000 mg/L.
EC50, (48h), Daphnia magna: 23300 mg/L.
Thiourea, CAS: 62-56-6
LC50, (48h), Leuciscus idus: > 10 mg/l.
EC50, (24h), Daphnia magna: 110 mg/l.
EC50, (96h), Scenedesmus subspicatus: 6,8 mg/l.
Isotridecan-1-ol, CAS: 27458-92-0
LC50, (96h), Cyprinus carpio: 1 - 10 mg/l.
EC50, (72h), Desmodesmus subspicatus: 1 - 10 mg/l.
EC50, (48h), Daphnia magna: 1 - 10 mg/l.

### 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

not applicable

### 12.6 Other adverse effects

Ecological data of complete product are not available.

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 c 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

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

#### Waste no. (recommended)

150110\*



## 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 l

- 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 l

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); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

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

**- Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.  
SEVESO III ( Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008:  
P5c FLAMMABLE LIQUIDS

**- VOC (2010/75/CE)** ca. 40 %

**15.2 Chemical safety assessment**

No information available.

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

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



## 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  
 ATE = acute toxicity estimate  
 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  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 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 4 been added: Consult a doctor immediately.  
 SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 SECTION 4 deleted: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
 SECTION 7 been added: Open and handle container with care.  
 SECTION 7 been added: Place the container in an upright position and protect it against falling over.  
 SECTION 15 been added: P5c FLAMMABLE LIQUIDS  
 SECTION 15 been added: SEVESO III ( Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008:



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