

Ramsauer GmbH & Co KG  
4822 Bad Goisern / H.

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

### 1.1 Product identifier

**Spengler 390**

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

#### 1.2.1 Relevant uses

Sealing material

#### 1.2.2 Uses advised against

None known.

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

#### Company

Ramsauer GmbH & Co KG  
Sarstein 17  
4822 Bad Goisern / H. / AUSTRIA  
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#### Address enquiries to

#### Technical information

[office@ramsauer.at](mailto:office@ramsauer.at)

#### Safety Data Sheet

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

### 1.4 Emergency telephone number

#### Advisory body

+43 (0) 1 406 43 43 (24h)

## 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.  
STOT SE 3: H336 May cause drowsiness or dizziness.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

#### Hazard pictograms



#### Signal word

WARNING

#### Contains:

n-Butyl acetate

#### Hazard statements

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.

#### Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

#### Environmental hazards

Does not contain any PBT or vPvB substances.  
Contains no ingredients with endocrine-disrupting properties.

#### Other hazards

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

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
25 - <50	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract) CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX GHS/CLP: Asp. Tox. 1: H304
20 - <30	n-Butyl acetate CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336

**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

**General information**

Take off contaminated clothing and wash before reuse.

**Inhalation**

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

**Skin contact**

When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**Ingestion**

Get medical advice.  
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  
Nausea, vomiting.  
Drowsiness  
Vertigo

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

**Suitable extinguishing media**

Carbon dioxide.  
Water spray jet.  
Foam.  
Dry powder.

**Extinguishing media that must not be used**

Full water jet.

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

In the event of fire the following can be released:  
Carbon monoxide (CO).  
Nitrogen oxides (NOx).

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Do not inhale explosion and/or combustion gases.  
Cool containers at risk with water spray jet.  
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.  
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 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.

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

Take up with absorbent material (e.g. general-purpose binder).  
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.  
Avoid spilling or spraying in enclosed areas.  
Use solvent-resistant equipment.  
  
Keep away from all sources of ignition - Refrain from smoking.  
Take precautionary measures against static discharges.  
Apparates and equipments must be conform in accordance to standard of storage and handling of flammable products.  
Vapours can form an explosive mixture with air.  
  
Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
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.  
Prevent penetration into the ground.  
  
Do not store with combustible materials.  
Do not store together with oxidizing agents.  
  
Protect from heat/overheating and from sun.  
Do not keep at temperatures above 50 °C.  
Keep container in a well-ventilated place.  
Keep container tightly closed.

### 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
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist
Short-term exposure (15-minute): 10 mg/m <sup>3</sup>
n-Butyl acetate
CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
Long-term exposure: 150 ppm, 724 mg/m <sup>3</sup>
Short-term exposure (15-minute): 200 ppm, 966 mg/m <sup>3</sup>
Silicon dioxide
CAS: 7631-86-9, EINECS/ELINCS: 231-545-4
Long-term exposure: 6 mg/m <sup>3</sup> , total inhalable dust

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

Substance / EC LIMIT VALUES
n-Butyl acetate
CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
Eight hours: 50 ppm, 241 mg/m <sup>3</sup>
Short-term (15-minute): 150 ppm, 723 mg/m <sup>3</sup>

**DNEL**

Substance
n-Butyl acetate, CAS: 123-86-4
Industrial, inhalative (vapor), Acute - local effects, 600 mg/m <sup>3</sup> ,
Industrial, inhalative (vapor), Long-term - local effects, 300 mg/m <sup>3</sup> ,
Industrial, inhalative (vapor), Acute - systemic effects, 600 mg/m <sup>3</sup> ,
Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day,
Industrial, dermal, Acute - systemic effects, 11 mg/kg bw/day,
Industrial, inhalative (vapor), Long-term - systemic effects, 300 mg/m <sup>3</sup> ,
general population, dermal, Acute - systemic effects, 6 mg/kg bw/day,
general population, inhalative (vapor), Long-term - systemic effects, 35,7 mg/m <sup>3</sup> ,
general population, inhalative (vapor), Acute - systemic effects, 300 mg/m <sup>3</sup> ,
general population, dermal, Long-term - systemic effects, 6 mg/kg bw/day,
general population, inhalative (vapor), Acute - local effects, 300 mg/m <sup>3</sup> ,
general population, oral, Long-term - systemic effects, 2 mg/kg bw/day,
general population, oral, Acute - systemic effects, 2 mg/kg bw/day,
general population, inhalative (vapor), Long-term - local effects, 35,7 mg/m <sup>3</sup> ,
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
Industrial, inhalative, Long-term - systemic effects, 2,7 mg/m <sup>3</sup> ,
Industrial, inhalative, Long-term - local effects, 5,6 mg/m <sup>3</sup> ,
Industrial, dermal, Long-term - systemic effects, 1 mg/kg bw/day,
general population, oral, Long-term - systemic effects, 0,74 mg/kg bw/day,

**PNEC**

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Substance
n-Butyl acetate, CAS: 123-86-4
soil, 0,09 mg/kg/ dw,
sediment (seawater), 0,098 mg/kg/ dw,
sediment (freshwater), 0,981 mg/kg/ dw,
sewage treatment plants (STP), 35,6 mg/L (AF= 10),
seawater, 0,018 mg/L (AF= 1000),
freshwater, 0,18 mg/L (AF= 100),
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
oral (food), 9,33 mg/kg,

## 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>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). 0,7 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Light protective clothing.
<b>Other</b>	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and 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>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	not determined
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	pasty
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	23 - 60
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	1,2 Vol.-%
Upper explosion limit	7,5 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	0,93 (20 °C / 68,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	15000 mPas (20°C)
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Strong heating.  
See SECTION 7.2.

### 10.5 Incompatible materials

Strong oxidizing agent.

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**10.6 Hazardous decomposition products**

Flammable gases/vapours.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity**

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

Substance
n-Butyl acetate, CAS: 123-86-4
LD50, oral, Rat, 10760 mg/kg (OECD 423),
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat, > 5000 mg/kg,

**Acute dermal toxicity**

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

Substance
n-Butyl acetate, CAS: 123-86-4
LD50, dermal, Rabbit, >14112 mg/kg (OECD 402),
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, dermal, Rabbit, > 2000 mg/kg,
LC50, dermal, Rat, 2,18 mg/l,

**Acute inhalational toxicity**

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

Substance
n-Butyl acetate, CAS: 123-86-4
LC50, inhalative, Rat, 23,4 mg/l (4h) (OECD 403),

**Serious eye damage/irritation**

Does not contain a relevant substance that meets the classification criteria.

**Skin corrosion/irritation**

Does not contain a relevant substance that meets the classification criteria.

**Respiratory or skin sensitisation**

Does not contain a relevant substance that meets the classification criteria.

**Specific target organ toxicity — single exposure**

Based on the available information, the classification criteria are fulfilled.  
 Toxicological data of complete product are not available.  
 Vapours may cause drowsiness and dizziness.  
 Calculation method

**Specific target organ toxicity — repeated exposure**

Does not contain a relevant substance that meets the classification criteria.

**Mutagenicity**

Does not contain a relevant substance that meets the classification criteria.

**Reproduction toxicity**

Does not contain a relevant substance that meets the classification criteria.

**Carcinogenicity**

Does not contain a relevant substance that meets the classification criteria.

**Aspiration hazard**

Based on available data, the classification criteria are not met.  
 $v > 20,5 \text{ mm}^2/\text{s}$  (40 °C)

**General remarks**

Frequent persistent contact with the skin can cause skin irritation.

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
n-Butyl acetate, CAS: 123-86-4
LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203),
EC50, (72h), Desmodemus subspicatus, 647,7 mg/l,
EC50, (48h), Daphnia magna, 44 mg/l,
IC50, Bacteria, 356 mg/l (40 h),
NOEC, Desmodemus subspicatus, 200 mg/l,
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EL50, (24h), Daphnia magna, > 10000 mg/l,
NOELR, (14d), Oncorhynchus mykiss, >= 1000 mg/l,
LL50, (96h), Pimephales promelas, >100 mg/l,
NOEL, (72h), Pseudokirchneriella subcapitata, >= 100 mg/l,
NOEL, (21d), Daphnia magna, 10 mg/l,

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

**12.3 Bioaccumulative potential**

not determined

**12.4 Mobility in soil**

not applicable

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

**12.7 Other adverse effects**

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment.

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



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**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**

Dispose of as hazardous waste.  
Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)** 080409\*

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.  
Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

**Waste no. (recommended)** 150110\* packaging containing residues of or contaminated by hazardous substances

**SECTION 14: Transport information****14.1 UN number**

**Transport by land according to ADR/RID** 1133

**Inland navigation (ADN)** 1133

**Marine transport in accordance with IMDG** 1133

**Air transport in accordance with IATA** 1133

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**14.2 UN proper shipping name**

<b>Transport by land according to ADR/RID</b>	Adhesives (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)
- Classification Code	F1
- Label	
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (D/E)
<b>Inland navigation (ADN)</b>	Adhesives (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)
- Classification Code	F1
- Label	
<b>Marine transport in accordance with IMDG</b>	Adhesives (No dangerous goods, according IMDG 2.3.2.5 to max. 30 l (see 5.4.1.5.10))
- EMS	F-E, S-D
- Label	
- IMDG LQ	5 l
<b>Air transport in accordance with IATA</b>	Adhesives
- Label	

**14.3 Transport hazard class(es)**

<b>Transport by land according to ADR/RID</b>	3
<b>Inland navigation (ADN)</b>	3
<b>Marine transport in accordance with IMDG</b>	3
<b>Air transport in accordance with IATA</b>	3

**14.4 Packing group**

<b>Transport by land according to ADR/RID</b>	III
<b>Inland navigation (ADN)</b>	III
<b>Marine transport in accordance with IMDG</b>	III
<b>Air transport in accordance with IATA</b>	III

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#### 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

not determined

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

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

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) ca. 24 %

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H336 May cause drowsiness or dizziness.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.

**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  
 EL50 = Median effective loading  
 ELINCS = European List of Notified Chemical Substances  
 EmS = Emergency Schedules  
 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  
 IVIS = In vitro irritation score  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 LL50 = Median lethal loading  
 LQ = Limited Quantities  
 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)  
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

**Modified position**

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.  
 SECTION 2 been added: Further hazards were not determined with the current level of knowledge.  
 SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).  
 SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.  
 SECTION 11 been added: Based on available data, the classification criteria are not met.  
 SECTION 11 been added: Based on available data, the classification criteria are not met.  
 SECTION 11 been added: Based on available data, the classification criteria are not met.  
 SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

**Safety Data Sheet 1907/2006/EC - REACH (GB)**  
**Spengler 390**

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