

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.06.2015

Version number 102

Revision: 29.08.2014

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

- 1.1 Product identifier

- Trade name **PETROLEUM SPEZIAL**

- Article number: 1000452510018

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

- **Application of the substance / the mixture** Solvents

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Staub & Co. - Silbermann GmbH

Ostendstraße 124

D-90482 Nürnberg

Tel.: 0911 / 5482 - 0

Fax: 0911-5482 -119

Mail: info@staub-silbermann.de

- Informing department:

Abteilung HSE

e-Mail: sdb@staub-silbermann.de

- 1.4 Emergency telephone number:

Poison Control Center, Mainz

Tel. 00 49 / 61 31 / 19 240

*** SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Distillates (petroleum), hydrotreated light

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (< 2 %)

- **Hazard statements**

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

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

P273 Avoid release to the environment.

P264 Wash thoroughly after handling.

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P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures**- Description:** Mixture of the following components**- Dangerous components:**

EC number: 919-164-8	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Distillates (petroleum), hydrotreated light STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	50-100%
EC number: 926-141-6 Reg.nr.: 01-2119456620-43	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (< 2 %) Asp. Tox. 1, H304	< 40%

- Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures**- General advice:** Change contaminated clothing**- After inhalation**

Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place and transport the patient in a recovery position.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact Rinse immediately opened eye for several minutes under running water. Then consult doctor.**- After swallowing**

Do not induce vomiting; instantly call for medical help.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

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

Breathing difficulty

Headache

Dazed

Dryness of skin

- Information for doctor

Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

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

Treat symptoms.

Subsequent observation for pneumonia and pulmonary oedema

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Possibly oxygen respiration treatment

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
carbon monoxide (CO)
carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear self-contained breathing apparatus.
- **Additional information**
Endangered containers in the surrounding area should be cooled with a water-hose.
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment and keep unprotected persons away.
Avoid contact with skin, eyes and clothes.
Ensure adequate ventilation
Do not breathe vapours.
Keep away from ignition sources
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Prevent from spreading (e.g. by damming-in or oil barriers).
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Protect against electrostatic charges.
Pay attention to general rules of internal fire prevention.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Keep containers tightly closed. Store in cool, dry conditions.

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- Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

Suitable material for containers and conduit: steel or stainless steel.

Unsuitable materials: natural rubber, butyl rubber, EPDM, polystyrene.

- Information about storage in one common storage facility:

Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.

Do not store with strong oxidizing agents.

- Further information about storage conditions: Store container in a well ventilated position.**- Storage class 10 (VCI - concept, 2007)****- 7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.**- 8.1 Control parameters****- Components with critical values that require monitoring at the workplace:**

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Distillates (petroleum), hydrotreated light (50-100%)	
TWA	Long-term value: 800 mg/m ³ RCP mineral spirits
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (< 2 %) (25-50%)	
TWA (8H)	Long-term value: 1000 mg/m ³ dearom. mineral spirits 200-250

- Additional information: The lists that were valid during the compilation were used as basis.**- 8.2 Exposure controls****- Personal protective equipment****- General protective and hygienic measures**

Keep away from food, beverages and fodder.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- Recommended filter device for short term use:

Filter A

Combination filter A-P2

Take care of limitations and rules for the use of breathing protection equipment (BGR 190).

- Protection of hands: Protective gloves.**- Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove materialPenetration time: ≥ 480 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Change gloves if notice sign of disenchantment.

- **Eye protection:** Sealing safety goggles with protection at the side- **Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
- Appearance:	
Form:	Fluid
Colour:	colourless-yellowish
- Smell:	Like aromates
- Odour threshold:	Not determined.
- pH-value:	not applicable
- Change in condition	
Melting point/Melting range:	< -10 °C
Boiling point/Boiling range:	> 178 °C
- Flash point:	> 61 °C (DIN EN ISO 2719)
- Inflammability (solid, gaseous)	Not applicable.
- Ignition temperature:	> 200 °C
- Decomposition temperature:	Not determined.
- Self-inflammability:	Product is not selfigniting.
- Danger of explosion:	Product is not potentially explosive
- Critical values for explosion:	
Lower:	0.6 Vol %
Upper:	7.0 Vol %
	(Higher and lower level for individual components)
- Vapour pressure at 20 °C:	≤ 1 hPa
- Density at 15 °C	~ 0.796 g/cm ³ (DIN 51757)
- Relative density	Not determined.
- Vapour density	Not applicable.
- Evaporation rate	Evaporation number: ~ 350 (Ether = 1) DIN 53170
- Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
- Partition coefficient (n-octanol/water): Not determined.	
- Viscosity:	
dynamic:	Not determined.
kinematic at 20 °C:	1.8 mm ² /s (DIN 51562)
- 9.2 Other information	No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** To avoid: warmth, flames, sparks
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known
- **Additional information:**
Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rab)
Inhalative	LC 50 / 4 h	> 13.1 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Slight irritant, prolonged or repeated exposure removes lipid skin film and may cause skin irritation,
- **on the eye:** Slight irritant
- **Sensitisation:** No sensitizing effect known.
- **Other information (about experimental toxicology):**
The toxicological data have not been evaluated by experiments. The information is derived from assessments and tests of similar products (by analogy).
- **Subacute to chronic toxicity:**
- **Germ cell mutagenicity:**
Results of tests or other studies do not meet the criteria for classification.
Based on test data for structurally similar materials.
- **Carcinogenicity:**
Results of tests or other studies do not meet the criteria for classification.
Based on test data for structurally similar materials.
- **Reproductive toxicity:**
Results of tests or other studies do not meet the criteria for classification.
Based on test data for structurally similar materials.
- **STOT-repeated exposure:**
Not expected to cause organ damage arising from prolonged or repeated exposure.
Based on test data for structurally similar materials.
- **Aspiration hazard:**
May be fatal if swallowed and enters airways. Based on physical and chemical properties of the product.
- **Additional toxicological information:**
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.

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SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

EL 50 / 48 h	100-220 mg/l (<i>Daphnia magna</i>)
EL 50 / 72 h	10-100 mg/l (<i>Pseudokirchneriella subcapitata</i>)
LL 50 / 96 h	10-100 mg/l (<i>Oncorhynchus mykiss</i>)
NOEC	0.097 mg/l (<i>Daphnia magna</i>) (21 d)
NOELR	0.091 mg/l (<i>Oncorhynchus mykiss</i>) (28 d)
	0.28 mg/l (<i>Daphnia magna</i>) (21 d)

- 12.2 Persistence and degradability

Readily biodegradable

Oxidises rapidly by photo-chemical reactions in air.

- **Other information:** Based on test data for structurally similar materials.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- Ecotoxicological effects:

- **Remark:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Additional ecological information:

- General notes:

Danger to drinking water if even small quantities leak into soil.

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

- 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contaminated water to separate by separator and dispose off in line with administrative regulations.

- Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **Uncleaned packagings:** Disposal must be made according to official regulations.

- Recommendation:

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

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Caution: Leftovers in the containers may cause the risk of explosion.
Uncleaned containers should not be perforated, cut or welded.

* **SECTION 14: Transport information**

- 14.1 UN-Number - ADR, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Transport/Additional information:	Not dangerous according to the above specifications.
- UN "Model Regulation":	-

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- VOC 100 % volatile organic compounds (Council Directive 2010/75/EC).
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H304 May be fatal if swallowed and enters airways.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing data specification sheet:

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- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LEV: Local Exhaust Ventilation

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- * Data compared to the previous version altered.

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