

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 16.07.2019

Version number 3.00

Revision: 16.07.2019

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

- **1.1 Product identifier**
- **Trade name: intense Refill**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages** PW Widespread use by professional workers
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Application of the substance / the mixture**  
Dry-cleaning  
Solvents
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEITZ GmbH  
Gutenbergstrasse 1 - 3  
65830 Kriftel / Germany  
Tel. + 49(0) 6192-9948-0  
Fax + 49(0) 6192-9948-99  
order@seitz24.com  
www.seitz24.com
- **Further information obtainable from:** sds@seitz24.com
- **1.4 Emergency telephone number:** GIZ-Nord, Göttingen, Germany + 49 551 19240

#### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
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, C11-C14, isoalkanes, cyclics, < 2% aromatics  
(R)-p-mentha-1,8-diene
- **Hazard statements**  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

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- **Precautionary statements**  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.
- **Additional information:**  
EUH208 Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.
- **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

##### · **Dangerous components:**

EC number: 927-285-2 Reg.nr.: 01-2119480162-45-xxxx	Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304	50 – 75%
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47-xxxx	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 1%
EC number: 939-350-2 Reg.nr.: 01-2119970550-39-xxxx	Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302	< 1%

##### · **Regulation (EC) No 648/2004 - Labelling for contents**

aliphatic hydrocarbons	≥30%
cationic surfactants	<5%
perfumes (D-LIMONENE)	

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

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of problems.
- **After skin contact**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.

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- **4.2 Most important symptoms and effects, both acute and delayed**  
If swallowed or in case of vomiting, danger of entering the lungs.
- **Information for doctor**  
In case of swallowing followed by vomiting aspiration into lungs may occur, which may lead to chemical pneumonia or suffocation.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Symptomatic treatment

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with skin and eyes.  
Ensure adequate ventilation  
Do not breathe gases/ vapours.  
Keep away from ignition sources
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable receptacles.
- **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 disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.

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- Prevent formation of aerosols.
- Avoid contact with eyes and skin.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Formation of explosive vapour- / air mixture possible.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
  - Store only in the original receptacle.
  - Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
  - Protect from heat and direct sunlight.
  - Store in cool, dry conditions in well sealed receptacles.
  - Store receptacle in a well ventilated area.
  - Protect from frost.
  - Time of storage: max. 24 month
- **Storage class 10**
- **7.3 Specific end use(s)** Dry-cleaning

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
  - The usual precautionary measures are to be adhered to when handling chemicals.
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Do not eat, drink, smoke or sniff while working.
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / vapours / aerosols.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).
  - Filter A
- **Protection of hands:**
  - Solvent resistant gloves
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **Material of gloves**  
Nitrile rubber, NBR  
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **As protection from splashes gloves made of the following materials are suitable:**  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.4$  mm
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Colourless
- **Odour:** Product specific
- **Odour threshold:** No further relevant information available.
- **pH-value:** Not applicable.
- **Change in condition**

Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	180 - 210 °C
- **Flash point:** 66 °C (EN 22719)
- **Flammability (solid, gaseous)** No further relevant information available.
- **Ignition temperature:** No further relevant information available.
- **Decomposition temperature:** No further relevant information available.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**

Lower:	No further relevant information available.
Upper:	No further relevant information available.
- **Oxidising properties** No further relevant information available.
- **Vapour pressure at 20 °C:** 0.6 hPa
- **Density at 20 °C:** ~ 0.81 g/cm<sup>3</sup> (ISO 2811)
- **Relative density** No further relevant information available.

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· <b>Vapour density</b>	No further relevant information available.
· <b>Evaporation rate</b>	No further relevant information available.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Segregation coefficient (n-octanol/water):</b>	No further relevant information available.
· <b>Viscosity:</b>	
dynamic:	No further relevant information available.
kinematic at 40 °C:	< 20.5 mm <sup>2</sup> /s
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**  
Stable under normal ambient conditions.  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**  
Protect from heat and direct sunlight.  
Keep away from ignition sources
- **10.5 Incompatible materials:**  
Strong oxidizing agents  
Acids  
Lyes
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics**

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)

**CAS: 5989-27-5 (R)-p-mentha-1,8-diene**

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

**Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides**

Oral	LD50	795 mg/kg (rat) (OECD 401)
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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics**

EC50 (48h) > 1,000 mg/l (Aquatic invertebrates)

EC50 (72h) > 1,000 mg/l (Aquatic plants, algae)

LC50 (96h) > 1,000 mg/l (Fish)

**CAS: 5989-27-5 (R)-p-mentha-1,8-diene**

EC50 0.36 mg/l (Aquatic invertebrates) (48 h; Daphnia magna; OECD 202)

LC50 0.72 mg/l (Fish) (96 h; Pimephales promelas; OECD 203)

ErC50 150 mg/l (Aquatic plants, algae) (72 h; Desmodosmus subspicatus; OECD 201)

**Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides**

EC50 0.0025 mg/l (Aquatic plants, algae) (72 h; Selenastrum capricornutum; OECD 201)  
0.016 mg/l (Aquatic invertebrates) (48 h; Daphnia)

LC50 0.85 mg/l (Fish) (96 h; Oncorhynchus mykiss; OECD 203)

NOEC 0.025 mg/l (Aquatic invertebrates) (21 d, Daphnia; OECD 211)

· **12.2 Persistence and degradability** No further relevant information available.

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

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

· **Additional ecological information:**

· **General notes:**

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

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

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### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Disposal must be made according to official regulations.

· **Waste disposal key:**

The assignment of waste codes in accordance with European Waste Catalogue (EWC) is trade- and process-specific and has to be made in compliance with national and local regulations.

· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Not applicable.

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

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **UN "Model Regulation":**

Void

### SECTION 15: Regulatory information

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

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- **Other information:** Product is for professional use only.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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

Classification of mixtures based on ingredients of the mixture, applying calculation method of assessing health and environmental hazards

**Abbreviations and acronyms:**

- 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 Harmonised System of Classification and Labelling of Chemicals
- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**