

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/05/2018

Reviewed on 01/05/2018

### 1 Identification

- **Product identifier**
- **Trade name: Modal SE**
- **Application of the substance / the mixture**  
Dry-cleaning  
Detergent
- **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
- **Information department:**  
sds@seitz24.com  
CHEM-TEL Inc.  
1305 North Florida Ave  
Tampa Florida 33602
- **Emergency telephone number:** 1-800-255-3924

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

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



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

docusate sodium  
alkanes, C10-13-iso-  
poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C12-14-alkylethers, phosphates  
1-aminopropan-2-ol

· **Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P280 Wear protective gloves / eye protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P302+P352 If on skin: Wash with plenty of water.  
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.  
P331 Do NOT induce vomiting.

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **CAS-No.    Components:**

CAS-No.	Components:	
CAS: 68551-17-7	alkanes, C10-13-iso-	25 – 50%
CAS: 34590-94-8	dipropylene glycol monomethylether	< 20%
CAS: 577-11-7	docusate sodium	< 15%
CAS: 68511-37-5	poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C12-14-alkylethers, phosphates	< 10%
CAS: 69011-36-5	isotridecanol, ethoxylated	< 10%
CAS: 78-96-6	1-aminopropan-2-ol	< 2%

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

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### 4 First-aid measures

- **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 complaints.
- **After skin contact**  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**  
Eye damage  
Skin irritation  
If swallowed or in case of vomiting, danger of entering the lungs
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **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.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Do not breathe gases/ vapours.  
Avoid contact with eyes and skin.  
Keep away from ignition sources
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.

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- **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.
- **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.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **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
- **Specific end use(s)** Dry-cleaning

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

**CAS: 34590-94-8 dipropylene glycol monomethylether**

PEL (USA)	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
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REL (USA)	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV (USA)	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm Skin
EV (Canada)	Short-term value: 910 mg/m <sup>3</sup> , 150 ppm Long-term value: 605 mg/m <sup>3</sup> , 100 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

- **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

- **Protection of hands:**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **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.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

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### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Fluid
Color:	Light yellow
· <b>Odor:</b>	Product specific
· <b>Odor threshold:</b>	No further relevant information available.

· **pH-value (100 g/l) at 20 °C (68 °F):** ~ 7,3

· **Change in condition**

Melting point/Melting range:	not applicable
Boiling point/Boiling range:	undetermined

· **Flash point:** > 95 °C (> 203 °F) (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 igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:	No further relevant information available.
Upper:	No further relevant information available.

· **Oxidizing properties** No further relevant information available.

· **Vapor pressure:** No further relevant information available.

· <b>Density at 20 °C (68 °F):</b>	~ 0,93 g/cm <sup>3</sup> (ISO 2811)
· <b>Relative density</b>	No further relevant information available.
· <b>Vapor density</b>	No further relevant information available.
· <b>Evaporation rate</b>	No further relevant information available.

· **Solubility in / Miscibility with Water:** Fully miscible

· **Partition coefficient (n-octanol/water):** No further relevant information available.

· **Viscosity:**

dynamic:	No further relevant information available.
kinematic at 40 °C (104 °F):	< 20,5 mm <sup>2</sup> /s

· **Other information** No further relevant information available.

### 10 Stability and reactivity

· **Reactivity** No further relevant information available.

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- **Chemical stability**  
Stable under normal ambient conditions.  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known

### 11 Toxicological information

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

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

**CAS: 68551-17-7 alkanes, C10-13-iso-**

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

**CAS: 34590-94-8 dipropylene glycol monomethylether**

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	9,500 mg/kg (rabbit)
Inhalative	LC50 (7h)	3.35 mg/l (rat)

**CAS: 577-11-7 docusate sodium**

Oral	LD50	> 3,000 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)

**CAS: 68511-37-5 poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C12-14-alkylethers, phosphates**

Oral	LD50	> 2,000 mg/kg (rat)
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**CAS: 69011-36-5 isotridecanol, ethoxylated**

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

**CAS: 78-96-6 1-aminopropan-2-ol**

Oral	LD50	4,260 mg/kg (rat)
Dermal	LD50	1,851 mg/kg (rabbit)

- **on the skin:** Causes skin irritation.
- **on the eye:** Causes serious eye irritation.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**CAS: 34590-94-8 dipropylene glycol monomethylether**

EC50	> 969 mg/l (Aquatic plants, algae) (96 h; Scenedesmus capricornutum)
	1,919 mg/l (Aquatic invertebrates) (48 h; Daphnia)

LC50	> 10,000 mg/l (Fish) (96 h; Pimephales promelas)
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**CAS: 68511-37-5 poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C12-14-alkylethers, phosphates**

EC50	0.1 – 1 mg/l (Aquatic invertebrates) (Daphnia magna; 48h)
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LC50	0.1 – 1 mg/l (Fish) (Brachydanio rerio; 96h)
------	--

**CAS: 69011-36-5 isotridecanol, ethoxylated**

EC50	> 1 mg/l (Aquatic plants, algae) (72 h; Desmodesmus subspicatus; OECD 201)
------	--

	> 1 mg/l (Aquatic invertebrates) (48 h; Daphnia magna; OECD 202)
--	--

LC50	> 1 mg/l (Fish) (96 h; Cyprinus carpio; OECD 203)
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NOEC	1.36 mg/l (Aquatic invertebrates) (21 d; Daphnia magna)
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**CAS: 78-96-6 1-aminopropan-2-ol**

EC50	32.7 mg/l (Aquatic plants, algae) (Scenedesmus subspicatus; 72h)
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	108.8 mg/l (Aquatic invertebrates) (Daphnia magna; 48h)
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LC50	> 215 – < 464 mg/l (Fish) (Leuciscus idus; 96h)
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· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

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

· **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.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · DOT, ADR, ADN, IMDG, IATA  | Void   |
| · <b>UN proper shipping name</b>   |  |
| · DOT, ADR, ADN, IMDG, IATA  | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · DOT, ADR, ADN, IMDG, IATA  |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · DOT, ADR, IMDG, IATA   | Void   |
| · <b>Environmental hazards:</b>  | Not applicable.                                      |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | Void   |

### 15 Regulatory information

- **Canadian substance lists**
  - **Canadian domestic substance list (DSL):**  
All ingredients are listed.
  - **Canadian ingredient disclosure list (limit 0.1%):**  
None of the ingredients is listed.
  - **Canadian ingredient disclosure list (limit 1%):**
- |                 |                                    |
|-----------------|------------------------------------|
| CAS: 34590-94-8 | dipropylene glycol monomethylether |
| CAS: 577-11-7   | docusate sodium                    |
| CAS: 78-96-6    | 1-aminopropan-2-ol                 |

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· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

CAS: 34590-94-8	dipropylene glycol monomethylether
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CAS: 78-96-6	1-aminopropan-2-ol
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CAS: 57-55-6	1,2-propanediol
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· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

CAS: 34590-94-8	dipropylene glycol monomethylether
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CAS: 78-96-6	1-aminopropan-2-ol
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CAS: 57-55-6	1,2-propanediol
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· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations**

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

· **Please note:**

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that its activities comply with Federal, State or provincial, and local laws. The following

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- specific information is made for the purpose of complying with numerous laws and regulations.
- **Other information:** The product has been designed for professional use only.

### 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.

- **Date of preparation / last revision** 01/05/2018 / -

- **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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

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