

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.07.2019



Version number 3.00

Revision: 18.07.2019

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

- **1.1 Product identifier**
- **Trade name: Sigma Clear**
- **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
Detergent
- **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**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **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**

GHS05 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
docusate sodium
Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics
Alcohols, C12-14, ethoxylated, phosphate
1-aminopropan-2-ol

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· **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.
- P331 Do NOT induce vomiting.
- 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.

· **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	25 – 50%
CAS: 577-11-7 EINECS: 209-406-4 Reg.nr.: 01-2119491296-29-xxxx	docusate sodium Eye Dam. 1, H318; Skin Irrit. 2, H315	< 15%
CAS: 68511-37-5 Polymer	Alcohols, C12-14, ethoxylated, phosphate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	< 10%
CAS: 69011-36-5 NLP: 500-241-6 Reg.nr.: 01-2119976362-32-xxxx	isotridecanol, ethoxylated Aquatic Chronic 3, H412	< 5%
CAS: 69011-36-5 Polymer	isotridecanol, ethoxylated Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	< 2%
CAS: 78-96-6 EINECS: 201-162-7 Reg.nr.: 01-2119475331-43-xxxx	1-aminopropan-2-ol Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H312	< 2%
CAS: 68439-50-9 Polymer	Alcohols, C12-14, ethoxylated Aquatic Acute 1, H400; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	< 1%

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

aliphatic hydrocarbons	≥30%
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anionic surfactants	(Contd. of page 2) ≥15 - <30%
non-ionic surfactants	≥5 - <15%

· **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 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; call for medical help immediately.
- **4.2 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.
- **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**
CO₂, 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.
Ensure adequate ventilation
Do not breathe gases/ vapours.

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Avoid contact with skin and eyes.

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.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 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

· Storage class 12**· 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.

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

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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 / vapours / aerosols.

· **Respiratory protection:**

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

Combination filter ABEK-P2

· **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 through 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: ≥ 0.4 mm

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

· **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:

Light yellow

· **Odour:**

Product specific

· **Odour threshold:**

No further relevant information available.

· **pH-value (100 g/l) at 20 °C:**

7.2

· **Change in condition**

Melting point/freezing point:

not applicable

Initial boiling point and boiling range:

undetermined

· **Flash point:**

> 95 °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.

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· 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: Upper:	No further relevant information available. No further relevant information available.
· Oxidising properties	No further relevant information available.
· Vapour pressure:	No further relevant information available.
· Density at 20 °C:	~ 0.92 g/cm ³ (ISO 2811)
· Relative density	No further relevant information available.
· Vapour density	No further relevant information available.
· Evaporation rate	No further relevant information available.
· Solubility in / Miscibility with Water:	Fully miscible
· Segregation coefficient (n-octanol/water):	No further relevant information available.
· Viscosity: dynamic: kinematic at 40 °C:	No further relevant information available. < 20.5 mm ² /s
· 9.2 Other information	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** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **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:**

ATE (Acute Toxicity Estimates)

Dermal	LD50	138,134 mg/kg
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Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics

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

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CAS: 577-11-7 docusate sodium

Oral LD50 > 2,100 mg/kg (rat)

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

CAS: 69011-36-5 isotridecanol, ethoxylated

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

Dermal LD50 > 2,000 mg/kg (rat) (OECD 402 (Literaturwert))

Inhalative LC50 > 1.6 mg/l (rat) (4 h; OECD 403)

CAS: 69011-36-5 isotridecanol, ethoxylated

Oral LD50 > 5,000 mg/kg (rat) (OECD 401)

Dermal LD50 > 5,000 mg/kg (/)

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

Oral LD50 4,260 mg/kg (rat)

Dermal LD50 1,851 mg/kg (rabbit)

CAS: 68439-50-9 Alcohols, C12-14, ethoxylated

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

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

· **Skin corrosion/irritation**

Causes skin irritation.

· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **CMR effects (carcinogenicity, 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: 577-11-7 docusate sodium

EC50 82.5 mg/l (Aquatic plants, algae) (72 h; Desmodesmus subspicatus)

35 mg/l (Aquatic invertebrates) (48 h; Daphnia magna)

LC50 49 mg/l (Fish) (96 h; Danio rerio)

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CAS: 69011-36-5 isotridecanol, ethoxylated

LC50	> 1 – 10 mg/l (Fish) (96 h; Brachydanio rerio; OECD 203)
EC20	0.979 mg/l (Aquatic plants, algae) (72 h; Desmodemus subspicatus; QSAR) 1.097 mg/l (Fish) (30 d; Pimephales promelas; QSAR) 0.74 mg/l (Aquatic invertebrates) (21d; Daphnia magna; QSAR)

CAS: 69011-36-5 isotridecanol, ethoxylated

EC50	> 1 – 10 mg/l (Aquatic plants, algae) (72 h; Desmodemus subspicatus; OECD 201) > 1 – 10 mg/l (Aquatic invertebrates) (48 h; Daphnia magna; OECD 202)
LC50	> 1 – 10 mg/l (Fish) (96 h; Cyprinus carpio; OECD 203)
NOEC	1.36 mg/l (Aquatic invertebrates) (21 d; Daphnia magna; QSAR)

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

EC50	32.7 mg/l (Aquatic plants, algae) (Scenedesmus subspicatus; 72h) 108.8 mg/l (Aquatic invertebrates) (Daphnia magna; 48h)
LC50	> 215 – < 464 mg/l (Fish) (Leuciscus idus; 96h)

CAS: 68439-50-9 Alcohols, C12-14, ethoxylated

EC50	> 0.1 – 1 mg/l (Aquatic invertebrates) (48 h; Daphnia magna)
LC50	> 0.1 – 1 mg/l (Fish) (96 h; Brachydanio rerio)
ErC50	> 0.1 – 1 mg/l (Aquatic plants, algae) (72 h; Desmodemus subspicatus)

- **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.

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.

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- **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. |
- **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**
H304 May be fatal if swallowed and enters airways.

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H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H412 Harmful 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

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute 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.**