

Printing date 04/05/2004

Reviewed on 04/05/2004

1 Identification of substance:

- **Product details:**
- **Trade name:** Flutec
- **Application of the substance / the preparation** Drycleaning / Laundry
- **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 3
65830 Kriftel/ Germany
seitz@seitz24.com
www.seitz24.com
- **Information department:**
CHEM-TEL Inc.
1305 North Florida Ave
Tampa Florida 33602
- **Emergency information:** 1-800-255-3924

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with non-hazardous ingredients.

CAS-No.	Components:	
68411-30-3	linear alkyl benzenesulfonic acid sodium salt	20 - 50%
34590-94-8	dipropylene glycol monomethyl ether	< 20%
577-11-7	diisooctyl sodium sulfosuccinate	< 20%
68439-39-4	2-ethyl hexanole, oxethylated, phosphated	< 20%

3 Hazards identification

- **Hazard description:**
Irritant liquid



Irritant

- **Information pertaining to particular dangers for man and environment**
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.
- **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0-4)**



Health = 2
Fire = 2
Reactivity = 0

4 First aid measures

- **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.

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- **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.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide (CO,CO₂)
Sulphur oxides (SOX)
Phosphorus oxides
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **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

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with eyes and skin.
Ensure adequate ventilation
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **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:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.

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Time of storage: max. 18 month

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8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

34590-94-8 dipropylene glycol monomethyl ether

PEL	600 mg/m ³ , 100 ppm Skin
REL	Short-term value: 900 mg/m ³ , 150 ppm Long-term value: 600 mg/m ³ , 100 ppm
TLV	Short-term value: 909 mg/m ³ , 150 ppm Long-term value: 606 mg/m ³ , 100 ppm Skin

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

- **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

Do not inhale gases / vapors / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

- **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.

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Color:	Light yellow
Odor:	Product specific

- **Change in condition**

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined

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- | | |
|--|---|
| · Flash point: | 79°C (174°F) (ASTM D93 c.c) |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Density at 20°C (68°F): | 1.055 - 1.065 g/cm ³ (ISO 2811) |
| · Solubility in / Miscibility with Water: | Fully miscible |
| · pH-value (100 g/l) at 20°C (68°F): | 7.9 - 8.2 |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**

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

68411-30-3 linear alkyl benzenesulfonic acid sodium salt

Oral	LD50	2550 mg/kg (rat)
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577-11-7 diisooctyl sodium sulfosuccinate

Oral	LD50	> 2000 mg/kg (rat)
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68439-39-4 2-ethyl hexanole, oxethylated, phosphated

Oral	LD50	> 2000 mg/kg (rat)
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34590-94-8 dipropylene glycol monomethyl ether

Oral	LD50	5130 mg/kg (rat)
Dermal	LD50	> 19000 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**

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

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

At present there are no ecotoxicological assessments.

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13 Waste Disposal Method

- **Product and uncleaned packagings:**
- **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

- | |
|---|
| <ul style="list-style-type: none"> · DOT regulations: · Hazard class: - |
| <ul style="list-style-type: none"> · Land transport ADR/RID (cross-border) · ADR/RID class: - |
| <ul style="list-style-type: none"> · Maritime transport IMDG: · IMDG Class: - |
| <ul style="list-style-type: none"> · Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: - |

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

- **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals
- **Hazard symbols:**
Irritant
- **Risk phrases:**
38 Irritating to skin.
41 Risk of serious damage to eyes.
- **Safety phrases:**
2 Keep out of the reach of children.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.
46 If swallowed, seek medical advice immediately and show this container or label.
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.
- **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 their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

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- **U.S. Regulations**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

- **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

- **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

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

All ingredients are listed.

- **California proposition 65:**

- **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

- **Prop 65 - Chemicals known to cause reproductive toxicity**

None of the ingredients is listed.

- **State right-to-know**

The following product component(s) is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

- **CAS-No.: Chemical name: LIST:**
34590-94-8 dipropylene glycol monomethyl ether NY/PA

- **OSHA hazard communication standard:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

- **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

- **CAS-No.: Chemical name: void**

- **Canadian regulations**

- **WHMIS information:**

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

D2B - Eye and/or skin irritant

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

B3 - Combustible liquid

- **CPR statement:**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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· **Hazardous products act information:**

This produkt contains the following ingredient(s) which are Controlled Products and/or on the Ingredients Disclosure List (Canadian HPA section 13 and 14):

· **Canadian Ingredient disclosure list**

· **Limit 0,1%**

None of the ingredients is listed.

· **Limit 1%**

34590-94-8	dipropylene glycol monomethyl ether
577-11-7	diisooctyl sodium sulfosuccinate
68411-30-3	linear alkyl benzenesulfonic acid sodium salt

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.

· **Contact:** Dr. Ralf Döring

USA