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## 1 Identification of substance:

- **Product details:**
- **Trade name: Novaclin Super PI**
- **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 Hazards identification

- **Hazard description:**  
Irritant liquid  
Irritant
- **WHMIS classification**  
B3 - Combustible liquid  
D2B - Toxic material causing other toxic effects



- **Information pertaining to particular dangers for man and environment**  
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

- **HMIS ratings (scale 0-4)**



HEALTH 2 Health = 2  
FIRE 2 Fire = 2  
REACTIVITY 0 Reactivity = 0

## 3 Composition/Data on components:

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

CAS-No.	Components:	
69011-36-5	isotridecanol, oxethylated	50 - 75%
	trade secret: quaternary ammonium compound	< 20%
34590-94-8	dipropylene glycol monomethyl ether	< 10%
67-63-0	2-propanol	< 5%

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

&lt; 1%

## 4 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.

## 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, 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, CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **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

- **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.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes and skin.

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- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.
- **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.  
Time of storage: max. 18 month

## 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 (USA)	600 mg/m <sup>3</sup> , 100 ppm Skin
REL (USA)	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm
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

### 67-63-0 2-propanol

PEL (USA)	980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
EL (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm

- **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.

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 / vapors / aerosols.

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

- **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

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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

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Product specific

### · Change in condition

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

- |  |   |
|--|---|
| · <b>Flash point:</b>                            | > 61°C (> 142°F) (ASTM D93 c.c)               |
| · <b>Auto igniting:</b>                          | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                    | Product does not present an explosion hazard. |
| · <b>Density at 20°C (68°F):</b>                 | ~ 0.980 g/cm <sup>3</sup> (ISO 2811)          |
| · <b>Solubility in / Miscibility with Water:</b> | Emulsifiable                                  |

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Materials to be avoided:** Strong oxidizing agents
- **Dangerous products of decomposition:** None if used as directed.

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

##### 69011-36-5 isotridecanol, oxethylated

Oral	LD50	> 2000 mg/kg (rat)
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##### trade secret: quaternary ammonium compound

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)

##### 67-63-0 2-propanol

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (rat)

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

Oral	LD50	4400 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritating effects possible
- **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:**  
Do not allow product to reach ground water, water course or sewage system.  
Our products are ultimately biodegradable according to criteria as laid down in Regulation (EC) No. 648/2004 on detergents. The test methods of ultimate biodegradability (mineralisation) are:  
Norm EN ISO 14593, OECD 301 B, OECD 301 C, OECD D and OECD 301 E

**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**

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

**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.

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# Material Safety Data Sheet

acc. to ISO/DIS 11014

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## Trade name: Novaclin Super PI

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Observe the general safety regulations when handling chemicals

· **Hazard symbols:**

Irritant

· **Risk phrases:**

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 (show the label where possible).

46 If swallowed, seek medical advice immediately and show this container or label.

· **Special labeling of certain preparations:**

Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

· **National regulations**

· **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.

· **U.S. Regulations**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

67-63-0	2-propanol	3
5989-27-5	(R)-p-mentha-1,8-diene	3

· **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)**

67-63-0	2-propanol
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· **Toxic Substances Control Act (TSCA):**

All ingredients are listed.

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# Material Safety Data Sheet

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- **California proposition 65:**

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Canadian regulations**

- **WHMIS information:**

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

B3 - Combustible liquid

D2B - Toxic material causing other toxic effects

- **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.

- **Canadian Ingredient Disclosure List**

- **Limit 0,1%**

None of the ingredients is listed.

- **Limit 1%**

34590-94-8 dipropylene glycol monomethyl ether

67-63-0 2-propanol

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

## 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

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