

Printing date 05/11/2004

Reviewed on 05/11/2004

## 1 Identification of substance:

- **Product details:**
- **Trade name: Destivit 2000**
- **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:**

CAS-No.	Components:	
	trade secret: glycolether acetate	50 - 100%
126-73-8	tributyl phosphate	10 - 20%

## 3 Hazards identification

- **Hazard description:**  
Harmful liquid



Harmful

- **Information pertaining to particular dangers for man and environment**  
R 20/21 Harmful by inhalation and in contact with skin.
- **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 or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact**  
Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment.
- **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.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **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>)  
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.  
Ensure adequate ventilation  
Do not breathe gases / vapors.  
Avoid contact with eyes and skin.
- **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:**  
In case of insufficient ventilation use breathing apparatus.  
Avoid contact with eyes and skin.  
Keep away from heat and direct sunlight.
- **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.

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Time of storage: max. 12 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:**

<b>trade secret: glycoether acetate</b>	
REL	33 mg/m <sup>3</sup> , 5 ppm
Skin	
TLV	130 mg/m <sup>3</sup> , 20 ppm
<b>126-73-8 tributyl phosphite</b>	
PEL	5 mg/m <sup>3</sup>
REL	2.5 mg/m <sup>3</sup> , 0.2 ppm
TLV	2.2 mg/m <sup>3</sup> , 0.2 ppm
BEI1	

- **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.

Immediately remove all soiled and contaminated clothing

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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

Do not inhale gases / vapors / aerosols.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

Solvent resistant 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.

- **Eye protection:** Safety glasses

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

## 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Fluid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Ester-like

- **Change in condition**

**Melting point/Melting range:** undetermined

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<b>Boiling point/Boiling range:</b>	undetermined
· <b>Flash point:</b>	> 78°C (> 172°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>	0.945 - 0.955 g/cm3 (ISO 2811)
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>pH-value:</b>	Not applicable

## 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 reactions**  
Reacts with strong oxidizing agents.  
Possible formation of peroxide
- **Dangerous products of decomposition:** None if used as directed.

## 11 Toxicological information

- **Acute toxicity:**

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

trade secret: glycolether acetate

Oral	LD50	2400 mg/kg (rat)
Dermal	LD50	1500 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritating effects possible
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful

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

### 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:**  
Harmful
- **Hazard-determining components of labelling:**  
trade secret: glycoether acetate
- **Risk phrases:**  
20/21 Harmful by inhalation and in contact with skin.
- **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 and soap.
  - 36/37 Wear suitable protective clothing and gloves.
  - 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.
- **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.

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# Material Safety Data Sheet

acc. to ISO/DIS 11014

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· **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)**

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: 126-73-8 tributyl phosphate 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

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- **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.

- **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%**

126-73-8 tributyl phosphate

## 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