1 Identification

- Product identifier
  - Trade name: Destivit 2000
  - Application of the substance / the mixture
    Dry-cleaning
    Defoamers, Anti-foaming agent

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    SEITZ GmbH
    Gutenbergstrasse 3
    65830 Kriftel / Germany
    Tel. + 49(0) 6192-9948-0
    Fax + 49(0) 6192-9948-99
    msds@seitz24.com
    www.seitz24.com

- Information department:
  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
  
  Carc. 2  H351  Suspected of causing cancer.

  GHS07

  Acute Tox. 4  H302  Harmful if swallowed.
  Acute Tox. 4  H312  Harmful in contact with skin.
  Acute Tox. 4  H332  Harmful if inhaled.
  Skin Irrit. 2  H315  Causes skin irritation.

  Flam. Liq. 4  H227  Combustible liquid.

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

  - Hazard pictograms
     
     GHS07  GHS08

  - Signal word Warning

  - Hazard-determining components of labeling:
    2-butoxyethyl acetate
    tributyl phosphate

  - Hazard statements
    H227  Combustible liquid.
    H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

(Contd. on page 2)
H315 Causes skin irritation.
H351 Suspected of causing cancer.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 Wear protective gloves / eye protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P302+P352 If on skin: Wash with plenty of soap and water.

Hazard description:

WHMIS classification
B3 - Combustible liquid
D2B - Toxic material causing other toxic effects

Classification system

NFPA ratings (scale 0-4)

Health = 1
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0-4)

HEALTH = 1
FIRE = 2
REACTIVITY = 0

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:
112-07-2 2-butoxyethyl acetate 50 - 100%
126-73-8 tributyl phosphate < 25%

Additional information
For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

Description of first aid measures

General information Immediately remove any clothing soiled by the product.
After inhalation Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
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.

**Information for doctor**
- **Most important symptoms and effects, both acute and delayed**
  No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
  Medical supervision for at least 48 hours

5 **Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents**
  CO2, 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**
  Do not inhale explosion gases or combustion gases.
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
- **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.
  Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of the collected material according to regulations.
- **Reference to other sections**
  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.  
    - 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:**  
    | Component                          | REL (USA)                        | TLV (USA)                      | EL (Canada) | EV (Canada) |
    |------------------------------------|----------------------------------|--------------------------------|-------------|-------------|
    | 112-07-2 2-butoxyethyl acetate      | Long-term value: 33 mg/m³, 5 ppm | Long-term value: 130 mg/m³, 20 ppm |              |             |
    | 126-73-8 tributyl phosphate         | Long-term value: 5 mg/m³         | Long-term value: 2.5 mg/m³, 0.2 ppm |              |             |
    |                                    | BEI-A, *inhalable fraction and vapor* | Long-term value: 5* mg/m³ |             |             |
    |                                    | EL (Canada)                      | Long-term value: 0.2 ppm        |             |             |
    |                                    | EV (Canada)                      | Long-term value: 2.2 mg/m³, 0.2 ppm |             |             |

- **Ingredients with biological limit values:**  
  | Component                          | BEI (USA)                          | Medium: red blood cells | Time: discretionary | Parameter: Cholinesterase activity (nonspecific) |
    |------------------------------------|------------------------------------|------------------------|---------------------|-----------------------------------------------|
    | 126-73-8 tributyl phosphate        | 70 % of baseline                   |                         |                     |                                               |

- **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.  
    - 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 / fumes / aerosols.
# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/09/2015
Reviewed on 07/09/2015

Trade name: Destivit 2000

- **Breathing equipment:**
  Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).
- **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**
  Butyl rubber, BR
  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 cannot 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:**
  Solvent resistant protective clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  Form: Fluid
  Color: Colorless
  Odor: Product specific
  Odour threshold: No further relevant information available.
- **pH-value at 20 °C (68 °F):** ~ 5.0
- **Change in condition**
  Melting point/Melting range: undetermined
  Boiling point/Boiling range: undetermined
- **Flash point:**
  78 °C (172 °F) (ASTM D93 c.c.)
- **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.
- **Density at 20 °C (68 °F):**
  ~ 0.95 g/cm3 (ISO 2811)
- **Relative density**
  No further relevant information available.
- **Vapour density**
  No further relevant information available.
- **Evaporation rate**
  No further relevant information available.
Trade name: Destivit 2000

- Solubility in / Miscibility with Water: Not miscible or difficult to mix
- Partition coefficient (n-octanol/water): No further relevant information available.
- Viscosity:
  - dynamic: No further relevant information available.
  - kinematic: No further relevant information available.
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability: Stable under normal ambient conditions. No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions: Reacts with strong oxidizing agents. Possible formation of peroxide.
- Conditions to avoid: Protect from heat and direct sunlight.
- 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:
    112-07-2 2-butoxyethyl acetate
    | Oral    | LD50   | 1880 mg/kg (rat) |
    | Dermal  | LD50   | 1480 mg/kg (rabbit) |
    | Inhalative | LC50   | > 3.91 mg/l (rat) (8h) |
    126-73-8 tributyl phosphate
    | Oral    | LD50   | 1390 mg/kg (rat) |
    | Dermal  | LD50   | > 3100 mg/kg (rabbit) |
    | Inhalative | LC50   | 4.2 mg/l (rat) (4h) |
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effects possible
- 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.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

(Contd. on page 7)
## 12 Ecological information

- **Toxicity**
  - *Aquatic toxicity:* No further relevant information available.
  - *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.

- **Results of PBT and vPvB assessment**
  - *PBT:* Not applicable.
  - *vPvB:* Not applicable.

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

## 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

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</tbody>
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- **ADR, ADN, IMDG, IATA**
  - **Class:** Void

- **Packing group**
  - **DOT:** III
  - **ADR, IMDG, IATA:** Void

- **Environmental hazards:** Not applicable.
### 15 Regulatory information

#### 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%):
- 126-73-8 tributyl phosphate

#### Sara
- Section 355 (extremely hazardous substances):
  - None of the ingredients is listed.
- Section 313 (specific toxic chemical listings):
  - 112-07-2 2-butoxyethyl acetate
- 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.

#### Cancerogenity categories
- EPA (Environmental Protection Agency)
  - None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
  - 112-07-2 2-butoxyethyl acetate A3
- MAK (German Maximum Workplace Concentration)
  - 112-07-2 2-butoxyethyl acetate 4
  - 126-73-8 tributyl phosphate 4

(Contd. on page 9)
Trade name: Destivit 2000

- 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 buyer’s responsibility to ensure that its 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.
- 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 07/09/2015 / 2
- 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)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  WHMIS: Workplace Hazardous Materials Information System (Canada)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  Flam. Liq. 4: Flammable liquids, Hazard Category 4
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Carc. 2: Carcinogenicity, Hazard Category 2
- * Data compared to the previous version altered.