

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/13/2017

Reviewed on 03/13/2017

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 1 - 3
65830 Kriftel / Germany
Tel. + 49(0) 6192-9948-0
Fax + 49(0) 6192-9948-99
order@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

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tributyl phosphate

- **Hazard statements**

- H227 Combustible liquid.
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
- 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 person to fresh air and keep 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.

- **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:**

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

- **Additional information** For the wording of the listed hazard 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** Skin irritation

- **Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment

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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**
- **Protective equipment:**
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).
Send for recovery or disposal in suitable receptacles.
- **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.

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.

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- **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:**

CAS: 112-07-2 2-butoxyethyl acetate

REL (USA)	Long-term value: 33 mg/m ³ , 5 ppm
TLV (USA)	Long-term value: 130 mg/m ³ , 20 ppm
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Long-term value: 20 ppm

CAS: 126-73-8 tributyl phosphate

PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 2.5 mg/m ³ , 0.2 ppm
TLV (USA)	Long-term value: 5* mg/m ³ BEI-A, *inhalable fraction and vapor
EL (Canada)	Long-term value: 0.2 ppm
EV (Canada)	Long-term value: 2.2 mg/m ³ , 0.2 ppm

· **Ingredients with biological limit values:**

CAS: 126-73-8 tributyl phosphate

BEI (USA)	70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific)
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- **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.

· **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

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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 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:** 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

- **Odor 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.

- **Vapor density** No further relevant information available.

- **Evaporation rate** No further relevant information available.

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

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- **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:**

ATE (Acute Toxicity Estimates)

Oral	LD50	1848 mg/kg (rat)
Dermal	LD50	1700 mg/kg (rabbit)
Inhalative	LC50 (4h)	14.2 mg/l

CAS: 112-07-2 2-butoxyethyl acetate

Oral	LD50	1880 mg/kg (rat)
Dermal	LD50	1480 mg/kg (rabbit)
Inhalative	LC50 (4h)	11 mg/l (ATE)
	LC50	> 3.91 mg/l (rat) (8h)

CAS: 126-73-8 tributyl phosphate

Oral	LD50	1553 mg/kg (rat)
Dermal	LD50	> 3100 mg/kg (rabbit)

- **on the skin:** Causes skin irritation.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

- **Carcinogenic categories**

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

None of the ingredients is listed.

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<ul style="list-style-type: none"> · NTP (National Toxicology Program)
None of the ingredients is listed.
<ul style="list-style-type: none"> · OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 112-07-2 2-butoxyethyl acetate	
EC50	1570 mg/l (Aquatic plants, algae) (72 h; Pseudokirchneriella subcapitata; ISO 8692)
	37 mg/l (Aquatic invertebrates) (48 h; Daphnia magna; DIN 38412)
LC50	28.3 mg/l (Fish) (96 h; Oncorhynchus mykiss; OECD 203)
EC20	> 1000 mg/l (Bacteria) (3h)
CAS: 126-73-8 tributyl phosphate	
EC50	8.2 mg/l (Fish) (96 h; Oncorhynchus mykiss)
	1.8 mg/l (Aquatic invertebrates) (48 h; Daphnia magna)
IC50	2.8 mg/l (Aquatic plants, algae) (72 h; Desmodesmus subspicatus)

- **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

<ul style="list-style-type: none"> · UN-Number 	
<ul style="list-style-type: none"> · DOT 	NA1993
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA 	Void

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<ul style="list-style-type: none"> · UN proper shipping name · DOT 	<p>COMBUSTIBLE LIQUID, N.O.S (2-butoxyethyl acetate)</p>
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA 	<p>Void</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	
	
<ul style="list-style-type: none"> · Class · Label 	<p>3 Combustible liquids 3</p>
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA · Class 	<p>Void</p>
<ul style="list-style-type: none"> · Packing group · DOT · ADR, IMDG, IATA 	<p>III Void</p>
<ul style="list-style-type: none"> · Environmental hazards: 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Special precautions for user 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: · DOT · Quantity limitations 	<p>On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>Void</p>

15 Regulatory information

· **Canadian substance lists**

· **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%):**

CAS: 126-73-8 tributyl phosphate

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (specific toxic chemical listings):**

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· **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.

· **New Jersey Right-to-Know List:**

CAS: 112-07-2 | 2-butoxyethyl acetate

CAS: 126-73-8 | tributyl phosphate

· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

CAS: 126-73-8 | tributyl phosphate

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

CAS: 112-07-2 | 2-butoxyethyl acetate

A3

· **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 buyers 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** 03/13/2017 / 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

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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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Carc. 2: Carcinogenicity – Category 2

• * **Data compared to the previous version altered.**

US