

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/05/2018

Version No. 4

Reviewed on 11/05/2018

## 1 Identification

- **Trade name:** *Clean Strong*
- **Application of the substance / the mixture** *Water-based cleaning emulsion*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Manufacturer:  
 PALLMANN GmbH  
 Im Kreuz 6  
 D-97076 Würzburg  
 Germany  
 Phone +49 931-27964-0  
 Fax +49 931-27964-50
- **Supplier:**  
 Uzin Utz North America, Inc.  
 14509 E. 33rd. Place, Unit G  
 Aurora, CO 80011  
 Phone: +720-374-4810  
 Toll-Free: +1 866-505-4810  
 Fax: +1 720-374-2113
- **Information department:**  
 Products Development Lab  
 E-Mail: [msds.info@uzin-utz.com](mailto:msds.info@uzin-utz.com)
- **Emergency telephone number:**  
 For Chemical Emergency Spill Leak Fire Exposure or Accident  
 Call CHEMTREC Day or Night: DOMESTIC NORTH AMERICA 800-424-9300  
 International, call +49 621 60 43 333

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements**  
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS05
- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
 Isotridecanol, ethoxylated  
 C9-11 Alcohol ethoxylate
- **Hazard statements**  
 Causes skin irritation.  
 Causes serious eye damage.
- **Precautionary statements**  
 Wear protective gloves / eye protection.  
 If on skin: Wash with plenty of soap and water.  
 Immediately call a poison center/doctor.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **NFPA ratings (scale 0 - 4)**



Health = 1  
Flammability = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1  
FIRE 1 Flammability = 1  
REACTIVITY 0 Reactivity = 0

· **Other hazards**

NFPA Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

NFPA is the National Fire Protection Association.

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe.

HMIS®, the Hazardous Materials Identification System, is a registered mark of the National Paint and Coatings Association (NPCA).

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Hazardous ingredients:**

CAS: 111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	10-<20%
CAS: 34590-94-8	Dipropylene glycol monomethyl ether Flam. Liq. 4, H227	5-<10%
CAS: 9043-30-5	Isotridecanol, ethoxylated ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	3-<5%
CAS: 68439-46-3	C9-11 Alcohol ethoxylate ⚠ Acute Tox. 3, H301; ⚠ Eye Dam. 1, H318	1-<3%
CAS: 124-68-5	2-amino-2-methylpropanol ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 3, H412	1-<3%

· **Additional information:**

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

For the wording of the listed hazard phrases refer to section 16.

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

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- **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**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **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 arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information:** Flash point: > 100°C (> 212°F).

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

#### · PAC-1:

CAS: 111-76-2	2-butoxyethanol	60 ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
CAS: 124-68-5	2-amino-2-methylpropanol	17 mg/m <sup>3</sup>

#### · PAC-2:

CAS: 111-76-2	2-butoxyethanol	120 ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
CAS: 124-68-5	2-amino-2-methylpropanol	190 mg/m <sup>3</sup>

#### · PAC-3:

CAS: 111-76-2	2-butoxyethanol	700 ppm
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
CAS: 124-68-5	2-amino-2-methylpropanol	570 mg/m <sup>3</sup>

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Avoid contact with the eyes and skin.  
Prevent formation of aerosols.  
Wash hands before breaks and at the end of work.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 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:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

#### CAS: 111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI

#### CAS: 34590-94-8 Dipropylene glycol monomethyl ether

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

- **Ingredients with biological limit values:**

#### CAS: 111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Not necessary. Ensure that room is well-ventilated during processing.
- **Protection of hands:** Not required.
- **Material of gloves** Not applicable.
- **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

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### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Color: Transparent
  - Odor: Solvent-like
- **pH-value at 20 °C (68 °F):** 10.5
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- **Flash point:** > 100 °C (>212 °F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: 1.1 Vol %
  - Upper: 10.6 Vol %
- **Vapor pressure at 20 °C (68 °F):** 1.2 hPa (0.9 mm Hg)
- **Density at 20 °C (68 °F):** 1.01 g/cm<sup>3</sup> (8.43 lbs/gal)
- **Solubility in / Miscibility with**
  - Water: Not miscible or difficult to mix.
- **Viscosity:**
  - Kinematic at 20 °C (68 °F): 14 s (DIN 53211/4)
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Specific symptoms in biological assay:**
- **Primary route(s) of entry:** Skin contact, eye contact, ingestion.
- **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.

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· **Additional toxicological information:**· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

CAS: 111-76-2 2-butoxyethanol

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

## 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:** Disposal should be in accordance with local, state or national legislation.· **Uncleaned packagings:**· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

## 14 Transport information

· **DOT, ADR, ADN, IMDG, IATA** Void· **UN proper shipping name**· **DOT, ADR, ADN, IMDG, IATA** Void· **DOT, ADN, IMDG, IATA**· **Class** Void· **DOT, IMDG, IATA** Void· **Environmental hazards:**· **Marine pollutant:** No· **Special precautions for user** Not applicable.· **Transport/Additional information:** Not regulated as hazardous material according to the above specifications.

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· UN "Model Regulation": Void

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· SARA (Superfund Amendments and Reauthorization Act)

· EPCRA Section 302 (Extremely Hazardous Substances):

None of the ingredient is listed.

· SARA Title III Section 313 (Toxic Release Inventory - TRI):

CAS: 111-76-2 | 2-butoxyethanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California)

· 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.

· Carcinogenicity categories

· EPA (Environmental Protection Agency)

CAS: 111-76-2 | 2-butoxyethanol

NL

· TLV (Threshold Limit Value established by ACGIH)

CAS: 111-76-2 | 2-butoxyethanol

A3

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

None of the ingredients is listed.

· GHS label elements

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

· Hazard pictograms GHS05

· Signal word Danger

· Hazard-determining components of labeling:

Isotridecanol, ethoxylated

C9-11 Alcohol ethoxylate

· Hazard statements

Causes skin irritation.

Causes serious eye damage.

· Precautionary statements

Wear protective gloves / eye protection.

If on skin: Wash with plenty of soap and water.

Immediately call a poison center/doctor.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

### 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.

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· **Department issuing SDS:** Product safety department

· **Contact:**

Mr. Adam Vernati, phone +1 720-420-4685

mobile +1 307-314-8312

· **Date of preparation / last revision** 11/05/2018 / 3

· **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)

HMS: Hazardous Materials Identification System (USA)

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. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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