

## 1 Identification

### Product identifier

**Trade name:** Flexo UV Wash

**Article number:** 1700

**Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

**Application of the substance / the mixture** Cleaning agent/ Cleaner

### Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

FLEXOCLEAN ENGINEERING B.V.

Bliek 8

NL-4941SG Raamsdonksveer

Tel: +31(0)162-576222

Fax: +31(0)162-576220

E-mail: info@flexoclean.nl

### Information department:

**Emergency phone (solely for physician in case of poisoning):**  
+31(0)30-2748888

**Emergency phone (other calamities):**  
+31(0)162-576222  
+31(0)20-4496565

### Emergency telephone number:


**Emergency phone (solely for physician in case of poisoning):**  
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+31(0)162-576222  
+31(0)20-4496565

## 2 Hazard(s) identification

### Classification of the substance or mixture

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Not applicable.

 Xi; Irritant

R36: Irritating to eyes.

### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

### Label elements

#### Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

#### Code letter and hazard designation of product:

Xi Irritant

#### Risk phrases:

36 Irritating to eyes.

#### Safety phrases:

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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.

60 This material and its container must be disposed of as hazardous waste.

Trade name: Flexo UV Wash

(Contd. of page 1)

**Classification system:**

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



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

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

**Other hazards**

**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.

**Dangerous components:**

112-34-5	2-(2-butoxyethoxy)ethanol	 Xi R36	50-100%
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**Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

**Description of first aid measures**

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult 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.

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** No special measures required.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:**

Dilute with plenty of water.

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).

Ensure adequate ventilation.

(Contd. on page 3)

**Trade name: Flexo UV Wash**

(Contd. of page 2)

**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

**Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

**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.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**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:**

**112-34-5 2-(2-butoxyethoxy)ethanol**

TLV Long-term value: 67.5\* mg/m<sup>3</sup>, 10\* ppm

\*Inhalable fraction and vapor

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

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.

Avoid contact with the eyes and skin.

**Breathing equipment:** Not necessary if room is well-ventilated.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

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.

(Contd. on page 4)

Trade name: Flexo UV Wash

(Contd. of page 3)

Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

pH-value: Not determined.

#### Change in condition

Melting point/Melting range:	-68 °C (-90 °F)
Boiling point/Boiling range:	224 °C (435 °F)

Flash point: 98 °C (208 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 225 °C (437 °F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Lower: 0.9 Vol %

Upper: 5.9 Vol %

Vapor pressure at 20 °C (68 °F): 0.08 hPa

Density at 20 °C (68 °F): 0.95 g/cm<sup>3</sup> (7.928 lbs/gal)

#### Solubility in / Miscibility with

Water: Fully miscible.

#### Solvent content:

VOC 100 %

Other information No further relevant information available.

## 10 Stability and reactivity

### Reactivity

#### 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.

USA

(Contd. on page 5)

Trade name: Flexo UV Wash

(Contd. of page 4)

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

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

#### 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)

#### Primary irritant effect:

**on the skin:** No irritant effect.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

#### 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.

## 12 Ecological information

### Toxicity

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

**Persistence and degradability** biodegradable

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

#### Additional ecological information:

#### General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

Trade name: Flexo UV Wash

(Contd. of page 5)

### 14 Transport information

**UN-Number**  
DOT, ADR, ADN, IMDG, IATA      Void

**UN proper shipping name**  
DOT, ADR, ADN, IMDG, IATA      Void

**Transport hazard class(es)**  
DOT, ADR, ADN, IMDG, IATA  
Class      Void

**Packing group**  
DOT, ADR, IMDG, IATA      Void

**Environmental hazards:**  
**Marine pollutant:**      No

**Special precautions for user**      Not applicable.

**Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**      Not applicable.

### 15 Regulatory information

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

**Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.

**Section 313 (Specific toxic chemical listings):**  
None of the ingredients is listed.

**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.

**Carcinogenicity categories**

**EPA (Environmental Protection Agency)**  
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.

(Contd. on page 7)

**Trade name: Flexo UV Wash**

(Contd. of page 6)

**Product related hazard informations:**

*The product has been classified and marked in accordance with directives on hazardous materials.*

**Hazard symbols:**

*Xi Irritant*

**Risk phrases:**

*36 Irritating to eyes.*

**Safety phrases:**

*23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*

*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.*

*60 This material and its container must be disposed of as hazardous waste.*

**National regulations:**

**Technical instructions (air):**

Class	Share in %
NK	100

**Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

**Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*Follow the directions for use on the label.*

*The information given in this Material Safety Sheet refer to the product described in this sheet, and is provided in the supposition that the product will be used in a proper way and for the purpose indicated by the manufacturer.*

*It is the responsibility of the user to take advised precautions, and also to make sure that this information is complete and sufficient for the use of the product. It is recommended to pass this information, if necessary, in an adapted form, to personnel and other interested parties.*

*Flexoclean Engineering B.V. does not carry any responsibility for use of the product, in any way, which is not in accordance with the instructions and the purposes indicated by the manufacturer.*

*It is forbidden to give this Material Data Sheet to other company's (only approval by Flexoclean Engineering B.V.).*

**Department issuing MSDS:** *Product safety department.*

**Date of preparation / last revision** *02/25/2015 / -*