

Under Regulation (CE) 1907/2006 and Regulation (CE) 453/2010

Trade name: T-CLEAN

Revision : 03.02.2012 Version 02

### 1 IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Identification of the product:

T-CLEAN

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Detergent for cleaning screen printing frames

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

Manufacturer / Supplier: Tecnolab Ltd.

Street / Number: Via Legnano, 13

Postcode / City / Country: 20821 Meda-MB-Italy

Phone: +39 0362 347416

Fax: +39 0362 347634

Contact: info@tecnolab-srl.it

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Regulation (EC) N.1272/2008 (CLP)

Harmful if swallowed. Causes skin irritation.



GHS07 / Acute Tox. 4, H312 - Acute Tox. 4, H332-Acute Tox.4; H302

Eye Irrit. 2, H319 - H315 Skin Irrit.2

Directive 67/584/EEC or 1999/45/EC

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin



Irritant Xi - Xn HARMFUL / Xi, R36/38 - Xn; R20/21/22

#### 2.2 Label elements

Regulation (EC) n. 1272/2008 (CLP)

Hazard pictograms



Exclamation mark (GHS07)

#### Warnings

Caution

#### Hazard

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H315 Causes skin irritation

H319 Causes eye irritation

#### Safety Advice

P261 Do not breathe dust / fume / gas / mist / vapors / aerosols.

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P264 Wash face and hands after use  
P270 Do not eat, drink or smoke when using this  
P310 Immediately call in POISON CENTER or doctor  
P312 If you feel unwell call a POISON CENTER or doctor  
P301/312 IF SWALLOWED you feel unwell: Call a  
POISON CENTER or physician.  
P305/351/338 IN CASE OF CONTACT WITH EYES: Rinse cautiously for several minutes. Remove  
contact lenses, if easy to do. Continue rinsing.  
P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for  
breathing.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P501 Dispose of contents / container in agreements with local regulations and national.

### 2.3 Other hazards

No data

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical characteristics

Ethylene glycol monobutyl ether, Registration number (CE): 01-211947510/-36;  
CAS: 111-76-2, EC No: 203-905-0;  
Index No.: 603-014-00-0

Percentage: 15-20%

Classification 67/548/EEC:



R20-R21-R22-R36-R38

Classification 1272/2008 (CLP):



Acute Tox. 4, H312 - Acute Tox. 4, H332

Acute Tox. 4, H302 - Eye Irrit. 2; H319 - Skin Irrit.2;H315

WATER H2O, CAS No. 7732-18-05 EINECS / ELINCS: 231-791-2

Percentage: 70-80%

Classification 67/548/EEC: Not dangerous

Classification 1272/2008 (CLP): Not dangerous

ETHANOL; Registration number (CE): 01-2119457610-43, EC No.: 200-578-6  
CAS: 64-17-5

Percentage: 0-5%

Classification 67/548/EEC:



F; R11

Classification 1272/2008 (CLP):



Fiam. Liq. 2; H225

PROPAN-2-OL; Registration number (CE): 01-2119457558-25, EC No: 200-661-7;  
CAS 67-63-0

Percentage: 0-5%

Classification 67/548/EEC:



F; R11



Xi; R36 R67

Classification 1272/2008 (CLP):



Fiam. Liq. 2; H225



Eye Irrit. 2, H319 STOT SE 3, H336

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#### 4 FIRST AID MEASURES

##### 4.1 Description of first aid measures

###### General:

In all cases of doubt, or when symptoms persist, seek medical attention.

###### In case of inhalation

Remove from the danger zone in a well-ventilated area; the occurrence of symptoms of discomfort seek medical assistance.

###### In case of contact with skin

Wash with water and rinse well. Change clothes if necessary, if irritation persists or tissue damage occurs, consult a physician.

###### In case of contact with eyes

Flush with running water for several minutes, holding the eyelids open. If symptoms persist pain consult a doctor.

###### In case of ingestion

Do not induce vomiting unless authorized by medical staff, show card safety. Never give anything by mouth if victim is unconscious.

##### 4.2 Most important symptoms and effects, both acute and delayed

None known.

##### 4.3 Indication of any need to consult a doctor immediately and special treatment

No data.

#### 5 FIRE-FIGHTING MEASURES

The product is not flammable or explosive.

##### 5.1 Extinguishing

###### Recommended extinguishers

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

##### 5.2 Special hazards arising from the substance or mixture

No data.

##### 5.3 Advice for firefighters fire extinguisher



Do not inhale gases from the fire.

In case of fire, use breathing apparatus with an independent source of air.

##### 5.4 Additional information

Move out of dangerous unprotected persons and unauthorized.

#### 6 ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves and protective clothing. Refer to protective measures listed in sections 7 and 8.

##### 6.2 Measures for environmental protection

Do not allow into drains. If the product contaminates lakes, rivers or sewages, inform the competent authority (police authorities, fire, etc.).

##### 6.3 Methods and materials for containment and cleaning up

In the case of solid product, to avoid the formation of dust.

In the case of liquid product, contain and absorb the spill with absorbent material (eg sand, earth, diatomaceous earth, etc.). Place contaminated material in suitable container for disposal.

After collection, wash area with water and materials involved recovering the used water and eventually send for disposal in approved facilities.

##### 6.4 Reference to other sections

No data

##### 6.5 Further information

Move out of dangerous unprotected persons and unauthorized.

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## 7 HANDLING AND STORAGE

For transport, the 'storage and handling materials suitable for use only

### 7.1 Precautions for safe handling

#### Information for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact and inhalation of vapors and / or dusts. See also section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and containers

Store in a cool, dry place. Avoid exposure to direct sunlight.

#### Further information about storage

Keep away from substances with which it can react. See par. 10.

#### Further information about storage

Keep container in a well ventilated area.

#### Storage class VCI: 12

### 7.3 Specific end uses

No data

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Ethylene glycol monobutyl ether, CAS: 111-76-2

Specification: TRGS 900-Limits the atmosphere at the workplace (D)

Value: 20 ppm / 98 mg/m<sup>3</sup>

Category: 4 (II)

Remarks: H, Y

Release Date: 02/07/2009

Specification: TRGS 903 - biological limit values (D)

Parameter: butossiaccetico acid / urine / for continuous exposure: then multi-shift prior

Value: 100 mg / l

Release Date: 31/03/2004

Specification: STEL (EC)

Value: 50 ppm / 246 mg/m<sup>3</sup>

Remarks: H

Released: 08/06/2000

Specification: Limit value (8 hours) (EC)

Value: 200 ppm / 98 mg/m<sup>3</sup>

Remarks: H

Released: 08/06/2000

ETHANOL; CAS: 64-17-5

Specification: TRGS 900-Limits the atmosphere at the workplace (D)

Value: 500 ppm / 960 mg/m<sup>3</sup>

Category: 2 (I)

Notes: Y

Release Date: 02/07/2009

PROPAN-2-OL; CAS: 67-63-0

Specification: TRGS 900-Limits the atmosphere at the workplace (D)

Value: 200 ppm / 500 mg/m<sup>3</sup>

Category: 2 (II)

Notes: Y

Release Date: 02/07/2009

Specification: TRGS 903 - biological limit values (D)

Parameter: Acetone / pure blood (B) / end of exposure / shift

Value: 50 mg / l

Release Date: 31/03/2004

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Specification: TRGS 903 - biological limit values (D)  
Parameter: Acetone / urine (U) / end of exposure / shift  
Value: 50 mg / l  
Release Date: 31/03/2004  
WATER H<sub>2</sub>O, CAS 7732-18-05  
TLV-TWA: undefined  
TLV-STEL: undefined

### 8.2 Checks explosion

General protective and hygienic measures

When using do not eat or drink.

Use appropriate protective measures for hands, eyes and skin. The manufacturer of the protective equipment must guarantee that said means are suitable to the product.

#### Respiratory protection



Use protective mask.

#### Hand protection



Use protective gloves.

#### Eye Protection



Use tightly fitting safety goggles.

#### Additional information about design of technical systems

The workplace must be adequately ventilated. Where possible, install sources of local exhaust ventilation and effective system of general extraction. If these measures are not sufficient to maintain concentrations of particulates and solvent vapors below the exposure limit, they will need to make use of suitable means of protection of the respiratory tract.

## 9 PROPERTIES 'PHYSICAL AND CHEMICAL

### 9.1 Information on basic physical and chemical

#### Data relevant to safety

Appearance: Liquid

Color: Colorless

Odor: Characteristic of the species

Boiling point: 100 ° C

Density: (20 °) 0994 + / - Kg / L

PH: Neutral

### 9.2 Other information

No data

## 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

Possibility of reaction with oxidizing agents.

### 10.2 Chemical stability

19 - May form explosive peroxides. The product is stable under storage conditions and use recommended (see section 7).

### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to

### 10.4 Conditions to avoid

15-Keep away from heat. Keep away from open flames, sparks and other sources of ignition.

### 10.5 Incompatible materials decomposition

Oxidizing agents - Aluminum

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#### **10.6 Hazardous decomposition products**

There is no specific information about this product

#### **11 TOXICOLOGICAL INFORMATION**

The product may have harmful effects on human health

##### **11.1 Information on toxicological effects**

###### **LD50/LC50 values relevant for classification**

Specification: LD50 (ethylene glycol monobutyl ether, CAS: 111-76-2)

Route of administration: oral

Test species: rat

Value: 200-2000 mg / kg

Specification: LD50 (ethylene glycol monobutyl ether, CAS: 111-76-2)

Routes of entry: Dermal

Test species: rat

Value: 400-2000 mg / kg

Specification: LC50 (ethylene glycol monobutyl ether, CAS: 111-76-2)

Routes of entry: inhalation

Test species: rat

Value: 2-20 mg / l

For. Test: 4 h

Specification: LD50 (ETHANOL, CAS: 64-17-5)

Route of administration: oral

Test species: rat

Value: 21 g / kg

Specification: LD50 (ETHANOL, CAS: 64-17-5)

Route of administration: oral

Test species: rabbit

Value: 6300 mg / kg

Specification: LD50 (ETHANOL, CAS: 64-17-5)

Routes of entry: Dermal

Test species: rabbit

Value: 20 g / kg

Specification: LD50 (PROPAN-2-OL; CAS: 67-63-0))

Route of administration: oral

Test species: rat

Value: 5840 mg / kg

Specification: LD50 (PROPAN-2-OL; CAS: 67-63-0))

Routes of entry: Dermal

Test species: rabbit

Value:> 2000 mg / kg

#### **12 ECOLOGICAL INFORMATION**

Use according to good working practices, avoiding release of the product Environment.

##### **12.1 Toxicity**

###### **Aquatic toxicity**

Specification: EC50 (ethylene glycol monobutyl ether, CAS: 111-76-2)

Parameter: Daphnia

Value:> 100mg / l

For. of the test: 24 h

Specification: EC50 (ethylene glycol monobutyl ether, CAS: 111-76-2)

Parameter: Alga

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Value:> 100mg / l  
For. Test: 7 g  
Specification: LC50 (ethylene glycol monobutyl ether, CAS: 111-76-2)  
Parameter: Fish  
Value:> 100mg / l  
For. of the test: 96 h  
Specification: EC50 (PROPAN-2-OL; CAS: 67-63-0)  
Parameter: Daphnia  
Value:> 100mg / l  
For. of the test: 48 h  
Specification: EC50 (PROPAN-2-OL; CAS: 67-63-0)  
Parameter: Alga  
Value:> 100mg / l  
For. of the test: 72 h  
Specification: EC50 (PROPAN-2-OL; CAS: 67-63-0)  
Parameter: Fish  
Value:> 100mg / l  
For. of the test: 48 h

#### 12.2 Persistence and degradability

##### Biological degradation / elimination

Readily biodegradable

#### 12.3 Bioaccumulative potential

Shortly bioaccumulative

#### 12.4 Mobility in soil

The product has very high potential for mobility

#### 12.5 Results of PBT and vPvB assessment

This product is not, or does not contain a substance classified as PBT or vPvB

#### 12.6 Other adverse effects

There is no specific information about this product.

#### 12.7 Additional information

VOC: Yes

### 13 DISPOSAL CONSIDERATIONS



Give to an incinerator or in an approved landfill in accordance with the regulations local.

Uncontaminated packaging

Collect all residues and contaminated packaging. After a suitable washing, the packaging can be recycled.

The packs are not washed from Dispose of as the material itself.

### 14 TRANSPORT INFORMATION

#### 14.1 UN number

The product is not a dangerous substance for national and international transport and on road, rail, sea and air.

#### 14.2 shipping name

The product is not a dangerous substance for national and international transport and on road, rail, sea and air.

#### 14.3 Classes of Transport hazard

The product is not a dangerous substance for national and international transport and on road, rail, sea and air.



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**14.4 Packing group**

The product is not a dangerous substance for national and international transport and on road, rail, sea and air.

**14.5 Environmental hazards**

The product is not a dangerous substance for national and international transport and on road, rail, sea and air.

**14.6 Special precautions for users**

No data

**15 REGULATORY INFORMATION**

**Elements**

**Regulation (EC) n. 1272/2008 (CLP)**

**Hazard pictograms**



Exclamation mark (GHS07)

**Warnings**

Caution

**Hazard**

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H315 Causes skin irritation

H319 Causes eye irritation

**Safety Advice**

P261 Do not breathe dust / fume / gas / mist / vapors / aerosols.

P264 Wash face and hands after use

P270 Do not eat, drink or smoke when using this

P310 Immediately call in POISON CENTER or doctor

P312 If you feel unwell call a POISON CENTER or doctor

P301/312 IF SWALLOWED you feel unwell: Call a POISON CENTER or physician.

P305/351/338 IN CASE OF CONTACT WITH EYES: Rinse cautiously for several minutes.

Remove contact lenses, if easy to do. Continue rinsing.

P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302/352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents / container in agreements with local regulations and national

**15.1 Safety, health and environmental, safety and environmental specifications for the substance / mixture national**

Italy: D. Decree 81/2008 (Consolidated Law on protection of health and safety in Workplace), as amended and Directive 2009/161/UE- risk assessment

chemical under Title IX Italy: D. Decree 81/2008 (Consolidated Law on the protection of health and safety in the workplace), as amended and Directive



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2009/161/EU - chemical risk assessment in accordance with Title IX.

**Hazard Class for water**

Class: 1 VwVwS

**International standards**

Directive 67/548/EEC (Classification, packaging and labeling of dangerous substances dangerous) and subsequent amendments.

Directive 1999/45/EC (Classification, packaging and labeling of dangerous substances dangerous) and subsequent amendments.

Regulation n ° 1907/2006/EC (REACH)

Regulation n ° 1272/2008/EC (CLP)

Regulation n ° 790/2009/CE (amending, for the purposes of progress technical and scientific ATP Regulation n ° 1272/2008/EC). Directive 67/548/EEC (Classification, packaging and labeling of dangerous substances) and subsequent changes. Directive 1999/45/EC (Classification, packaging and labeling of dangerous substances) and subsequent amendments.

Regulation n ° 1907/2006/EC (REACH)

Regulation n ° 1272/2008/EC (CLP)

Regulation n ° 790/2009/CE (amending, for the purposes of progress technical and scientific ATP Regulation n ° 1272/2008/EC)

**15.2 Chemical safety assessment**

There is no specific information about this product

**16 OTHER INFORMATION**

**Additional information**

Working conditions existing at the use although We have no knowledge or control. The user is responsible for observing of all required statutory provisions.

**Risk Phrases of components**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed

36/38 Irritating to eyes and skin

**CLP - Indications of Danger components**

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H315 Causes skin irritation

H319 Causes eye irritation

**Expiry date: 12 months from production date**