

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** DINITROL PUR 520 CLEANER
- **Application of the substance / the preparation** Layer to promote adhesion
- **Manufacturer/Supplier:**  
EFTEC AG Hofstrasse 31 CH-8590 Romanshorn, Switzerland  
EFTEC Aftermarket GmbH Pyrmonterstr. 76 D-32676 Lügde
- **Further information obtainable from:**  
+41(0)71 466 43 00 Customer Support Laboratory  
heribert.perler@eftec.ch
- **Information in case of emergency:** +41 44 251 51 51 Swiss Toxicological Information Centre









### 2 Hazards identification

- **Hazard description:**  
Xi Irritant  
F Highly flammable
- **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.  
R 11 Highly flammable.  
R 43 May cause sensitisation by skin contact.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol	 F; R 11	50-100%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	 Xi,  F; R 11-36-67	5-10%
CAS: 919-30-2 EINECS: 213-048-4	3-aminopropyltriethoxysilane	 C,  Xn; R 22-34	1-5%
CAS: 4420-74-0 EINECS: 224-588-5	3-trimethoxysilylpropane-1-thiol	 Xn,  Xi,  N; R 22-43-51/53	1-5%

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

### 4 First-aid measures

- **After inhalation:**  
Supply fresh air and to be sure call for a 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.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 2)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

Trade name: **DINITROL PUR 520 CLEANER**

(Contd. of page 1)

· **After swallowing:** Seek immediate medical advice.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
  - Water
  - Water with full jet
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
  - Prevent seepage into sewage system, workpits and cellars.
  - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**
  - No special measures required.
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
- **Maximum storage temperature:** < 35°C
- **Minimum storage temperature:** > 0°C

## 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

### 64-17-5 ethanol

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

### 67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm  
 Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

· **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 3)

GB

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

Trade name: **DINITROL PUR 520 CLEANER**

(Contd. of page 2)

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

- **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.
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Liquid
<b>Colour:</b>	Black
<b>Odour:</b>	Characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	-114.5°C
<b>Boiling point/Boiling range:</b>	78°C

· <b>Flash point:</b>	13°C
-----------------------	------

· <b>Ignition temperature:</b>	425°C
--------------------------------	-------

· <b>Self-igniting:</b>	Product is not selfigniting.
-------------------------	------------------------------

· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
-------------------------------	---

### · Explosion limits:

<b>Lower:</b>	3.5 Vol %
<b>Upper:</b>	15.0 Vol %

· <b>Vapour pressure at 20°C:</b>	59 hPa
-----------------------------------	--------

· <b>Density at 20°C:</b>	0.797 g/cm <sup>3</sup>
---------------------------	-------------------------

· <b>Solubility in / Miscibility with water at 20°C:</b>	1.000 g/l
--	-----------

### · Solvent content:

<b>Organic solvents:</b>	96.5 %
--------------------------	--------

(Contd. on page 4)

GB

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

Trade name: **DINITROL PUR 520 CLEANER**

(Contd. of page 3)

· **Solids content:** 3.5 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

## 12 Ecological information

- **General notes:**  
Water hazard class 1 (German Regulation) (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.

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1170
- **Packaging group:** II
- **Hazard label** 3

(Contd. on page 5)

GB

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

**Trade name: DINITROL PUR 520 CLEANER**

(Contd. of page 4)

· **Description of goods:** 1170 ETHANOL (ETHYL ALCOHOL), mixture

· **Maritime transport IMDG:**



· **IMDG Class:** 3  
 · **UN Number:** 1170  
 · **Label:** 3  
 · **Packaging group:** II  
 · **EMS Number:** F-E,S-D  
 · **Marine pollutant:** No  
 · **Proper shipping name:** ETHANOL (ETHYL ALCOHOL), mixture

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 3  
 · **UN/ID Number:** 1170  
 · **Label:** 3  
 · **Packaging group:** II  
 · **Proper shipping name:** ETHANOL (ETHYL ALCOHOL), mixture

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



*Xi Irritant*  
*F Highly flammable*

· **Hazard-determining components of labelling:**

3-trimethoxysilylpropane-1-thiol

· **Risk phrases:**

11 Highly flammable.  
43 May cause sensitisation by skin contact.

· **Safety phrases:**

7/9 Keep container tightly closed and in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
24/25 Avoid contact with skin and eyes.  
37 Wear suitable gloves.  
60 This material and its container must be disposed of as hazardous waste.

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

(Contd. on page 6)

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

**Trade name: DINITROL PUR 520 CLEANER**

(Contd. of page 5)

**· Technical instructions (air):**

Class	Share in %
III	50-100

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

**· Relevant R-phrases**

- 11 Highly flammable.
- 22 Harmful if swallowed.
- 34 Causes burns.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

**· Department issuing MSDS:** Customer Support Laboratory**· Contact:** H. Perler**· \* Data compared to the previous version altered.**

GB