

## 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 538 PLUS
- **Application of the substance / the preparation** Priming
- **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:**  
Xn Harmful  
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.  
Has a narcotizing effect.  
R 11 Highly flammable.  
R 36 Irritating to eyes.  
R 42/43 May cause sensitisation by inhalation and skin contact.  
R 67 Vapours may cause drowsiness and dizziness.  
Contains isocyanates. See information supplied by the manufacturer
- **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: 78-93-3 EINECS: 201-159-0	butanone ☒ Xi, ☒ F; R 11-36-66-67	50-100%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate ☒ Xi; R 10-36	5-10%
CAS: 28182-81-2	Aliphatisches Polyisocyanat ☒ Xi; R 43-52/53	1-5%
CAS: 9016-87-9	diphenylmethandiisocyanate, isomeres and homologues ☒ Xn, ☒ Xi; R 20-36/37/38-42/43-48/20	1-5%
CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67	1-5%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixture of isomers ☒ Xn, ☒ Xi; R 10-20/21-38	1-5%
CAS: 34365-79-2 EINECS: 251-964-6	Bismuth neodecanoate ☒ Xn, ☒ N; R 10-22-51/53-65	0.1-1%

(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 538 PLUS**

(Contd. of page 1)

· **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. If symptoms persist, consult a doctor.
- **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).  
Dispose contaminated material as waste according to item 13.  
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

GB

(Contd. on page 3)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

Trade name: **DINITROL 538 PLUS**

(Contd. of page 2)

## 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:**

### 78-93-3 butanone

WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
 Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
 Sk

### 108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 274 mg/m<sup>3</sup>, 50 ppm  
 Sk

### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL Short-term value: 0.07 mg/m<sup>3</sup>  
 Long-term value: 0.02 mg/m<sup>3</sup>  
 Sen; as -NCO

### 123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
 Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

### 1330-20-7 xylene, mixture of isomers

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
 Sk; BMGV

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

· **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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **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.

(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 538 PLUS**

(Contd. of page 3)

· **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**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 76°C

· **Flash point:** -4°C· **Ignition temperature:** 300°C· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

<b>Lower:</b>	1.8 Vol %
<b>Upper:</b>	11.5 Vol %

· **Vapour pressure at 20°C:** 105 hPa· **Density at 20°C:** 0.93 g/cm<sup>3</sup>· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.· **Solvent content:**

<b>Organic solvents:</b>	71.4 %
--------------------------	--------

· **Solids content:** 28.0 %

## 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:** Irritating effect.
- **Sensitization:**
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.

(Contd. on page 5)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2009

Revision: 20.02.2009

Trade name: **DINITROL 538 PLUS**

(Contd. of page 4)

· **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:

Harmful

Irritant

· **Sensitisation** May cause sensitisation by inhalation and skin contact.

## 12 Ecological information

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## 13 Disposal considerations

· **Product:**

· **Recommendation**

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

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances

· **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:** 1866

· **Packaging group:** II

· **Hazard label** 3

· **Description of goods:** 1866 RESIN SOLUTION (vapor pressure at 50°C at most 110 kPa)

· **Maritime transport IMDG:**



· **IMDG Class:** 3

· **UN Number:** 1866

· **Label** 3

· **Packaging group:** II

· **EMS Number:** F-E,S-E

(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 538 PLUS**

(Contd. of page 5)

- **Marine pollutant:** No
- **Proper shipping name:** RESIN SOLUTION

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1866
- **Label:** 3
- **Packaging group:** II
- **Proper shipping name:** RESIN SOLUTION

## 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:**



Xn Harmful  
F Highly flammable

- **Hazard-determining components of labelling:**  
Aliphatisches Polyisocyanat  
diphenylmethanediisocyanate, isomeres and homologues

- **Risk phrases:**  
11 Highly flammable.  
36 Irritating to eyes.  
42/43 May cause sensitisation by inhalation and skin contact.  
67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**  
9 Keep container in a well-ventilated place.  
23 Do not breathe aerosol.  
24/25 Avoid contact with skin and eyes.  
37 Wear suitable gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
60 This material and its container must be disposed of as hazardous waste.

- **Special labelling of certain preparations:**  
Contains isocyanates. See information supplied by the manufacturer

- **National regulations:**

1330-20-7	xylene, mixture of isomers
-----------	----------------------------

- **Technical instructions (air):**

Class	Share in %
I	1-5
NK	50-100

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

(Contd. on page 7)

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

Printing date 20.02.2009

Revision: 20.02.2009

**Trade name: DINITROL 538 PLUS**

(Contd. of page 6)

· **EU-VOC:** 72.48 %**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**

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 38 Irritating to skin.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 43 May cause sensitisation by skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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