

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

Printing date 11.03.2009

Revision: 11.03.2009

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

- **Product details**
- **Trade name:** Dinitrol 445 Dröhnex schwarz
- **Application of the substance / the preparation** Coating material
- **Manufacturer/Supplier:** EFTEC Aftermarket GmbH Pyrmonterstr. 76 D-32676 Lügde
- **Further information obtainable from:**
Tel. +49(0)5281 98298 0, FAX +49(0)5281 98298 60
Hans.Pfau@eftec.de
- **Information in case of emergency:** +49(0)30 19240 Beratungsstelle für Vergiftungserscheinungen, D-Berlin

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 38 Irritating to skin.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 63 Possible risk of harm to the unborn child.
R 67 Vapours may cause drowsiness and dizziness.
- **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: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-51/53-65-67	10-25%
CAS: 108-88-3 EINECS: 203-625-9	toluene ☒ Xn, ☒ Xi, ☒ F; R 11-38-48/20-63-65-67	5-10%
CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy ☒ Xn, ☒ N; R 10-51/53-65-66-67	5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixture of isomers ☒ Xn, ☒ Xi; R 10-20/21-38	5-10%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate ☒ Xi, ☒ F; R 11-36-66-67	1-5%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene ☒ Xn, ☒ Xi, ☒ N; R 10-20-36/37/38-51/53	0.1-1%

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

4 First-aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **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.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **The following symptoms may occur:**
Headache
Dizziness
Dizziness
- **Treatment** If swallowed or in case of vomiting, danger of entering the lungs.

5 Fire-fighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water
Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Mount respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**
Keep away from ignition sources.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
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
- **Additional information:** See Section 13 for disposal information.

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7 Handling and storage

- **Handling:**

- **Information for safe handling:**

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

- **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:** Store away from foodstuffs.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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:**

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm

Long-term value: 191 mg/m³, 50 ppm

Sk

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

OEL Short-term value: 580 mg/m³, 100 ppm

Long-term value: 350 mg/m³, 50 ppm

CEFIC

1330-20-7 xylene, mixture of isomers

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

141-78-6 ethyl acetate

WEL Short-term value: 400 ppm

Long-term value: 200 ppm

- **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 and skin.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter AX

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· **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.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Fluorocarbon rubber (Viton)

· **For the permanent contact gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

Neoprene gloves

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Neoprene gloves

· **As protection from splashes gloves made of the following materials are suitable:**

Fluorocarbon rubber (Viton)

Leather gloves

· **Not suitable are gloves made of the following materials:**

Strong material gloves

Natural rubber, NR

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**

Form:	Liquid
Colour:	Black
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 77°C

· **Flash point:** 4°C

· **Ignition temperature:** 260°C

· **Self-igniting:** Product is not selfigniting.

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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.0 Vol %
· Vapour pressure at 20°C:	85 hPa
· Density at 20°C:	1.17 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic at 20°C:	1000 mPas
· Solvent content:	
Organic solvents:	42.7 %
· Solids content:	57.3 %

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:**

- **LD/LC50 values relevant for classification:**

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4h	>5 mg/l (calculated)

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rab)
Inhalative	LC50/4h	5320 mg/l (mouse)

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

Oral	LD50	5000 mg/kg (rat)
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- **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

- **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

· **Inhalation:** Harmful by inhalation.

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· **Ingestion:** Risk of chemical pneumonia if the product reaches the lungs at vomiting or similar.

12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50 1-10 mg/l (alga)

LC50 1-10 mg/l (fish)

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

IC50/96h 10 mg/l (fish)

· **Remark:** Harmful to fish

· **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.

Harmful to aquatic organisms

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 01 00 wastes from MFSU and removal of paint and varnish

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 10 packaging containing residues of or contaminated by 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:** 1139

· **Packaging group:** III

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- **Hazard label** 3
- **Description of goods:** 1139 COATING SOLUTION (with a flash point below 23°C and viscous according 2.2.3.1.4) (vapor pressure at 50°C at most 110 kPa)

· **Maritime transport IMDG:**

- **IMDG Class:** 3
- **UN Number:** 1139
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** COATING SOLUTION

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

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1139
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** COATING 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:**

toluene

· **Risk phrases:**

- 11 Highly flammable.
- 38 Irritating to skin.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 63 Possible risk of harm to the unborn child.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes/aerosol.

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36/37 Wear suitable protective clothing and gloves.

51 Use only in well-ventilated areas.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **National regulations:**

1330-20-7	xylene, mixture of isomers
141-78-6	ethyl acetate

· **Technical instructions (air):**

Class	Share in %
NK	25-50

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.· **EU-VOC:** 42.70 %* **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.

36 Irritating to eyes.

36/37/38 Irritating to eyes, respiratory system and skin.

38 Irritating to skin.

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.

63 Possible risk of harm to the unborn child.

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:** Entwicklung· **Contact:** H. Pfau· * **Data compared to the previous version altered.**