

## Material Safety Data Sheet

### According to 91/155 EC

Printing date 04.06.2002

Reviewed on 08.05.2002

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

· **Product details**

· **Trade name:** Dinitrol 6900 Kontrollschwarz matt

· **Manufacturer/Supplier:**

EFTEC GmbH Pyrmonterstr. 76 D-32676 Lügde  
DINOL AB, Box 149, S-28122 Hässleholm, SWEDEN

· **Further information obtainable from:** Tel. +49(0)5281 98298 0, FAX +49(0)5281 98298 60

· **Information in case of emergency:**










+49(0)30 19240 Beratungsstelle für Vergiftungserscheinungen, D-Berlin

### 2 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

141-78-6	ethyl acetate	 Xi,  F; R 11-36-66-67	10-25%
123-86-4	n-butyl acetate	R 10-66-67	10-25%
74-98-6	propane	 F+; R 12	10-25%
106-97-8	butane	 F+; R 12	10-25%
108-10-1	4-methylpentan-2-one	 Xn,  F; R 11-20-36/37-66	10-25%
67-64-1	acetone	 Xi,  F; R 11-36-66-67	2.5-10%
1330-20-7	xylene (mix)	 Xn; R 10-20/21-38	2.5-10%

### 3 Hazards identification

· **Hazard description:**

Xi Irritant

F+ Extremely flammable

· **Information concerning particular hazards for human and environment:**

R 12 Extremely flammable.

R 36 Irritating to eyes.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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### 4 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:** Call a doctor immediately.

### 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 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:** 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.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Class according to regulation on flammable liquids:** Void

### 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:**

141-78-6 ethyl acetate

OES Long-term value: 1460 mg/m<sup>3</sup>, 400 ppm

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<b>123-86-4 n-butyl acetate</b>	
OES	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
<b>74-98-6 propane</b>	
OES	Asphyxiant
<b>106-97-8 butane</b>	
OES	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm
<b>108-10-1 4-methylpentan-2-one</b>	
OES	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm Sk Bmg
<b>67-64-1 acetone</b>	
OES	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1810 mg/m <sup>3</sup> , 750 ppm
<b>1330-20-7 xylene (mix)</b>	
OES	Short-term value: 662 mg/m <sup>3</sup> , 150 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk

· **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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:** Not required.

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- |                  |                |
|------------------|----------------|
| · <b>Form:</b>   | Fluid          |
| · <b>Colour:</b> | Colourless     |
| · <b>Odour:</b>  | Characteristic |

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 55°C

· <b>Flash point:</b>	-19°C
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· <b>Ignition temperature:</b>	365°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.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.5 Vol %
<b>Upper:</b>	11.5 Vol %
· <b>Vapour pressure at 20°C:</b>	8300 hPa
· <b>Density at 20°C:</b>	0.91 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	84.0 %
· <b>Solids content:</b>	16.0 %

### 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:** No sensitizing effects known.
- **Additional toxicological information:**  
Irritant.  
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:

### 12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** There is no data available for the product.
- **Ecotoxicological effects:**
- **Remark:** There is no data available for the product.
- **Remark:** The effects in aquatic environment are not known.
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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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.

· **European waste catalogue**

16 05 04	gases in pressure containers (including halons) containing dangerous substances
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08 01 00	wastes from MFSU and removal of paint and varnish
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15 01 10	packaging containing residues of or contaminated by dangerous substances
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· **Uncleaned packaging:**

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

### 14 Transport information

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



· **ADR/RID class:** 2 Gases.

· **Danger code (Kemler):** 23

· **UN-Number:** 1950

· **Packaging group:** -

· **Hazard label** 2.1

· **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**



· **IMDG Class:** 2.1

· **UN Number:** 1950

· **Label** 2.1

· **Packaging group:** -

· **EMS Number:** 2-13

· **Marine pollutant:** No

· **Proper shipping name:** AEROSOLS

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



· **ICAO/IATA Class:** 2.1

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- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable, n.o.s

### 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+ Extremely flammable*

· **Risk phrases:**

12 Extremely flammable.  
36 Irritating to eyes.

· **Safety phrases:**

9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
25 Avoid contact with eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
51 Use only in well-ventilated areas.  
60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Buildup of explosive mixtures possible without sufficient ventilation.  
Keep out of the reach of children

· **National regulations:**

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

· **Classification according to VbF: Void**

· **Technical instructions (air):**

Class	Share in %
II	2,5-10
III	50-100

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

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**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.*

· **Contact:** Herr H. Pfau

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