



# EC safety data sheet (91/155 EEC)

Trade name: DO IT FLUORESCENT SPRAY

Status: 15.07.2003

Product no.: 2106063xx

Version : 1 / GB

Date of printing : 05.08.2003

## 1.) Identification of the substance/preparation and company

### Product details

#### Trade name

DO IT FLUORESCENT SPRAY

### Identification of the manufacturer / supplier

#### Address

Marabuwerke GmbH & Co KG  
Asperger Straße 4  
D-71732 Tamm

Telephone no.       (++49)-7141/691-0

Fax no.               (++49)-7141/691-235

#### Information provided by / telephone

Product safety +49 7141/691-116 or 232

#### Emergency telephone number

Product safety +49 7141/691-116 or 232

#### Use

Colour spray

## 2.) Composition / information on ingredients

### Chemical characterization

Reactive agent solution: Pigmented varnish based on acrylic resins and on solvents  
Propellant: Propane-butane

### Hazardous ingredients

#### BUTANE

CAS no.	106-97-8			
EINECS number	203-448-7			
Concentration	>= 25	<	30	%-b.w.
Classification	F+;R12			

#### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

CAS no.	64742-49-0			
EINECS number	265-151-9			
Concentration	>= 20	<	30	%-b.w.
Classification	Xn;R65			
	F;R11			
	N;R51/53			
	Xi;R38			
	R67			

#### NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY

CAS no.	64742-82-1			
EINECS number	265-185-4			
Concentration	>= 5	<	10	%-b.w.
Classification	Xn;R65			
	N;R51/53			
	R10			



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### ETHYL ACETATE

CAS no. 141-78-6  
EINECS number 205-500-4  
Concentration >= 5 < 10 %-b.w.  
Classification F;R11  
Xi;R36  
R66  
R67

### 1-METHOXY-2-PROPANOL

CAS no. 107-98-2  
EINECS number 203-539-1  
Concentration >= 1 < 5 %-b.w.  
Classification R10

## 3.) Hazards possibilities

### Hazard symbols

F+ Extremely flammable N Dangerous for the environment  
Xi Irritant

### R phrases

38 Irritating to skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

### Particular information pertaining specific risk for human / environment

The product is water polluting.

## 4.) First aid measures

### General information

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Unconsciousness: lateral position - call a physician.

### After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a physician.

### After skin contact

Wash away with soap and water and rinse. Do NOT use solvents or thinners!

### After eye contact

Flush with plenty of water (10 - 15 min.). Call a physician.

### After ingestion

Call a doctor. Keep at rest. Do not induce vomiting.

## 5.) Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide, dry powder or water spray jet. For bigger fires, use water spray jet. In the event of a fire, remove where possible undamaged cans from the danger zone. Alternatively cool with water. Danger of explosion.

### Extinguishing media that must not be used for safety reasons

Full water jet



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### **Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**

In case of fire, dangerous smoke gases such as carbon dioxide, carbon monoxide, soot, nitrogen oxides, metal oxides and halogenated hydrogens can be produced. Therefore, take suitable precautionary measures for fire fighting. Residues remaining after a fire have to be disposed of appropriately.

### **Special protective equipment for fire-fighting**

Breathing apparatus with an independent source of air may be required.

### **Other information**

Cool endangered containers with water in case of fire.

## **6.) Accidental release measures**

### **Personal precautions**

Keep away from sources of ignition. Provide for good ventilation. Do not breathe vapours. Refer to protective measures listed in sections 7 and 8.

### **Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### **Methods for cleaning up/taking up**

Remove by liquid absorbing material (e.g. kieselguhr) and process according to waste regulations. Clean preferably with a detergent; avoid use of solvents.

## **7.) Handling and storage**

### **Handling**

#### **Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit. Do not leave containers open. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. When using do not eat, drink or smoke. Comply with the health and safety at work laws.

#### **Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

#### **Classification of fires**

B (Combustible liquid substances)

#### **Temperature class**

T3

### **Storage**

#### **Requirements for storage rooms and vessels**

Recommended storage temperature: 15-20°C. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### **Hints on storage assembly**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

#### **Further information on storage conditions**

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from sources of ignition. Keep containers dry and cool.



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### 8.) Exposure controls / personal protection

#### Additional hints on technical system design.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

#### Ingredients with occupational exposure limits to be monitored

##### BUTANE

OES/EH40

Value	600	ml/m <sup>3</sup>	1450	mg/m <sup>3</sup>
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STEL	750	ml/m <sup>3</sup>	1810	mg/m <sup>3</sup>
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##### 1-METHOXY-2-PROPANOL

OES/EH40

Value	100	ml/m <sup>3</sup>	375	mg/m <sup>3</sup>
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STEL	300	ml/m <sup>3</sup>	1120	mg/m <sup>3</sup>
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Skin resorption /  
sensibilisation

Sk

2000/39/EC

Value	100	ml/m <sup>3</sup>	375	mg/m <sup>3</sup>
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STEL	150	ml/m <sup>3</sup>	568	mg/m <sup>3</sup>
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Skin resorption /  
sensibilisation

skin

##### ETHYL ACETATE

OES/EH40

Value	400	ml/m <sup>3</sup>	1460	mg/m <sup>3</sup>
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##### AROMATICS

OES/EH40

Value	500	mg/m <sup>3</sup>		
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##### CYCLOALKANES, =C7

OES/EH40

Value	800	mg/m <sup>3</sup>		
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##### NORMAL AND BRANCHED CHAIN ALKANES, >=C7

OES/EH40

Value	1200	mg/m <sup>3</sup>		
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##### NORMAL AND BRANCHED CHAIN ALKANES, C5-C6

OES/EH40

Value	1800	mg/m <sup>3</sup>		
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### Personal protective equipment

#### Respiratory protection

Breathing protection equipment required in inadequately ventilated places and during spraying.

Respiratory filter (gas) : A

Respiratory filter (part): P2

#### Hand protection

Chemical protection gloves are suitable, which are tested according to EN 374.

Recommendation for protection against components normally found in the products:

For short-term contact (e.g. spray protection) as well as for long-term contact (e.g. cleaning purposes):

Suitable material: LLDPE

Material thickness: 0.06 mm

Penetration time: >480 min.



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Protective gloves must always be tested and confirmed with regard to suitability to each specific working environment (e.g. mechanical resistance, product compatibility, antistatic).

Follow the instructions and information from the glove manufacturer in reference to use, storage, care, and frequency of glove exchange.

Protective gloves should be immediately replaced upon being damaged or when showing first signs of wear. Preventive skin protection (skin protective cream) is recommended. Contaminated skin areas should immediately be washed (follow data sheet for skin protection ZH 1/132).

Working procedures are to be so arranged that the permanent wearing of gloves will not be necessary.

We recommend to set up a hand protection plan, which is adapted to the needs of the local business. Further information is provided in the publications of Bundesverband Handschutz (nos. 6 and 9) and BG Druck und Papierverarbeitung (528.1, 528.2, 531.X).

### Eye protection

Use safety glasses.

### Skin protection

Personal should wear antistatic clothing made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact. Use re-greasing skin cream.

### General protective and hygiene measures

The usual precautionary measures for the handling of chemicals have to be observed.

## 9.) Physical and chemical properties

### Appearance

Form	liquid
Colour	see trade name
Odour	mild

### Safety data

#### Changes in physical state

Type	Boiling point (initial)	
Value	60	°C

#### Flash point

Value	-25	°C
Reference substance	solvent	

#### Ignition temperature

Value	235	°C
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#### Explosion limits

Upper explosion limit	13,7	% vol
Lower explosion limit	0,7	% vol

#### Vapour pressure

Value	83	hPa
Reference temperature	20	°C

#### Density

Value	0,8 - 0,9	g/cm <sup>3</sup>
Reference temperature	20	°C

#### Viscosity

Type	Flow time	
Value	< 90	sec
Reference temperature	20	°C



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### Solubility in water

Remarks parts of solvents

### pH value

Remarks inapplicable

### Other information

Physical data are approximate values and are based on the used safety relevant components EXCEPT PROPELLANT GAS!

## 10.) Stability and reactivity

### Conditions to avoid

Stable under recommended storage and handling conditions (See section 7).

### Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### Hazardous decomposition products

When exposed to high temperatures, dangerous decomposition products such as carbon dioxide, carbon monoxide, soot, nitrogen oxides, metal oxides and halogenated hydrocarbons can be produced.

## 11.) Toxicological information

### Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Irritating to skin. Splashes in the eyes may cause pronounced burning pains. If swallowed, stomach complaints and irritation of the digestive organs may result.

### Other information

There are no data available on the preparation itself.  
The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EEC).

## 12.) Ecological information

### General information / ecology

There are no data available on the preparation itself. Do not empty into waters or drains

## 13.) Disposal considerations

### Product

Dispose of or incinerate in accordance with corresponding regulations.  
Code of waste pursuant to European Council Directive on waste: 20 01 27 (Municipal wastes (Household waste and similar commercial, industrial and institutional wastes) including separately collected fractions - separately collected fractions (except 15 01) - paint, inks, adhesives and resins containing dangerous substances).

### Uncleaned packaging

Completely emptied containers can be used in the recycling chain with glass or tinsplate.  
Uncleaned packaging must be disposed of in the same manner as the medium.



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### 14.) Transport information

#### Land transport ADR/RID

Class	2
Hazard id. no.	23
UN number	1950
Technical name	Aerosols

#### Marine transport IMDG/GGVSee

Class	2
UN number	1950
Proper shipping name	Aerosols
EmS	2-13
MARPOL	--

#### Air transport ICAO/IATA

Class	2.1
UN number	1950
Proper shipping name	Aerosols, flammable

### 15.) Regulatory information

#### Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC directives/GefStoff V

#### Hazard symbols

F+	Extremely flammable	N	Dangerous for the environment
Xi	Irritant		

#### R phrases

38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

#### Special labelling for 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 into flames or on glowing materials.

Keep away from sources of ignition - no smoking. Keep out of reach of children. Without adequate ventilation formation of explosive mixtures may be possible.

### 16.) Other information

#### Other information

According to their chemical structure, the applied raw materials do not contain any antimony, arsenic, soluble barium, lead, cadmium, chromium, mercury and selenium.

Product conforms therefore to DIN EN 71, part 3.



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### **BUTANE**

12 Extremely flammable.

### **NAPHTHA (PETROLEUM), HYDROTREATED LIGHT**

11 Highly flammable.

65 Harmful: may cause lung damage if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

38 Irritating to skin.

67 Vapours may cause drowsiness and dizziness.

### **NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY**

10 Flammable.

65 Harmful: may cause lung damage if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **ETHYL ACETATE**

11 Highly flammable.

36 Irritating to eyes.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

### **1-METHOXY-2-PROPANOL**

10 Flammable.

### **Department issuing safety data sheet**

Laboratory/product safety.

### **Contact person**

Dipl.-Chem. G. Heller or Dipl.-Ing. U. Voetter.

The instructions are based on today's information and knowledge. The safety data sheet describes products in relation to safety requirements. These instructions do not assure application technological properties of the product.