

# MATERIAL SAFETY DATA SHEET

Product Name: Brush Cleaner 0601 - 03398

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Date of revision: 28. Okt. 2003 Data Sheet no.: 060103398

Version no.: 1 Date of printing: 20-03-2007

## Brush Cleaner 0601 - 03398

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** Brush Cleaner 0601 - 03398

**PR-no:**

**Product Category:** Brush cleaner

**Manufacturer:**

Esbjerg Farve- & Lakfabrik A/S

Energivej 13  
6700 Esbjerg

Telephone no.: 75 12 86 00

Fax no.: 75 45 33 68

**Emergency telephone number :**

The doctor may contact the  
Danish Poisons Information  
Center by calling: +45 35 31 60  
60.

**Uses:**

Cleaning of paint brushes, etc.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

Hazardous compounds in accordance with EC Directives 1999/45/EEC; 2001/59/EEC (symbol and R-phrases are stated for the pure compound). Any volatile compounds are stated in item 8 in units of ppm.

**Contains:**

CAS number:	EINECS no.:	%:	Chemical Name:	Classification:	Note:	
71-36-3	200-751-6	25 - 50%	butan-1-ol	Xn, Xi	R10, R22, R41, R67, R37/38	
123-86-4	204-658-1	10 - 25%	n-butyl acetate		R10, R66, R67	
64742-49-0	265-151-9	10 - 25%	Naphtha (petroleum), hydrotreated light	Xn, F, N	R11, R38, R65, R67, R51/53	4, Ae, H
1330-20-7	215-535-7	10 - 25%	xylene	Xn, Xi	R10, R38, R20/21	
67-64-1	200-662-2	2,5 - 10%	acetone	Xi, F	R11, R36, R66, R67	
100-41-4	202-849-4	2,5 - 10%	ethylbenzene	Xn, F	R11, R20	

### 3. HAZARDS IDENTIFICATION:

**Main Toxicological and Ecological hazards:**

This product is very flammable and presents a hazard to health. Harmful if swallowed. Risk of serious damage to eyes. Harmful: may cause lung damage if swallowed. Irritating to skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES:

**General information:**

If in doubt, seek medical advice. Also see para. 1

**Inhalation:**

If patient feels unwell move to fresh air and keep under surveillance. If the victim is unconscious, ascertain whether the victim is breathing. If breathing has stopped, apply artificial respiration. If the victim is unconscious but breathing, place in the recovery position and keep warm with blankets. Obtain immediate medical attention or call an ambulance.

**Contact with eyes:**

If necessary, remove contact lenses. Immediately flush eyes with water for at least 10 minutes. Hold eyelids wide apart. Seek medical attention.

**Contact with skin:**

Remove contaminated clothes immediately, and wash skin thoroughly with soap and water. Skin cleaner may be used. Do not use organic solvents or thinners.

**Ingestion:**

Do NOT induce vomiting. If vomiting occurs, hold head low to prevent aspiration of liquid into lungs. Obtain medical help or ambulance.

**Burns:**

Flush with plenty of water until pain ceases. Whilst flushing with water, remove all loose clothing from area of burns. If medical treatment is necessary, continue rinsing until a doctor takes over the treatment.

### 5. FIRE-FIGHTING MEASURES:

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**Suitable extinguishing media:**

Extinguish fire with foam, carbon dioxide, powder, or water vapor.

**Extinguishing media that must not be used:**

Do not use a water jet as it spreads the fire.

**Special hazards:**

Fire will produce a thick black smoke.

**Special protective equipment:**

Products of combustion are harmful and respiratory protection is required.

**General information:**

Cool closed containers with water.

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**6. ACCIDENTAL RELEASE MEASURES:**

**Personal precautions:**

Avoid inhalation of vapours. See protection measures in item 7 and 8.

**Environmental precautions:**

If lakes, waterways or drains become contaminated, inform the environmental authorities. Do not discharge into drain. See Item 12.

**Methods for cleaning up:**

Recover spill with non-flammable, absorbent material, e.g. sand, dirt, or granular substances and place in a disposable container (see item 13). Clean preferably with cleansing agents. Avoid using solvents.

**General information:**

Remove all ignition sources and ensure sufficient ventilation.

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**7. HANDLING AND STORAGE:**

**Handling:**

Vapors may form explosive mixtures with air. Prevent the formation of flammable or explosive mixtures. Minimize vapor concentrations. Do not use this material near naked flames or any other ignition source. Electrical installations must be protected according to regulations. The product may be charged electrostatically. Always use underground wire when transferring from one container to another. Personnel should wear antistatic shoes and clothing. Floors should be conductive. Do not use tools which may produce sparks. Avoid contact with eyes and skin. Avoid inhaling vapors and spray mists. Smoking and the consumption of food and drink are not permitted in work rooms. Personal protective equipment: Refer to section 8. Do not eat, drink, smoke or store tobacco, food or drink in work places or areas where there is a risk of contact with the product.

**Storage:**

Follow the Danish Emergency Management Agency guidelines for flammable liquids. The product must be kept away from children. Store in a tightly closed container and in accordance with the current regulations in a dry and well-ventilated place away from food. Keep away from ignition sources, oxidizing agents and strong acidic and basic substances. No smoking. No admittance to unauthorized persons. Opened containers must be carefully closed and stored upright to prevent any leakage.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

**Engineering Control Measures:**

All work must be planned with a view to limit the breathing of fumes and the exposure to the skin. Ensure adequate ventilation. If this is not possible, use respiratory protection according to the MAL code number.

**Respiratory Protection:**

Use compressed-air full face mask.

**Hand Protection:**

Use 4H protection gloves. Break-through time is 8 hours. Cotton gloves may be used under, and a disposable glove over the 4H glove. Follow the glove manufacturer's recommendations on use and replacement.

**Eye protection:**

Use suitable protective goggles or full face mask for protection against splashes.

**Body Protection:**

If possible, wear special work clothes. When spraying wear coveralls.

**General information:**

Prevent employee exposure to substances which may be hazardous by pregnancy or breast feeding.

**Occupational Exposure Limits:**

The specified exposure limit values are in accordance with the Danish National Working Environment Authority's list of recommended Exposure Limit Values.

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CAS number:	Chemical Name:	Occupational Exposure Limits:	Note:
71-36-3	butan-1-ol	50 ppm 150 mg/m <sup>3</sup>	H, L
123-86-4	n-butyl acetate	150 ppm 710 mg/m <sup>3</sup>	
64742-49-0	Naphtha (petroleum), hydrotreated light	250 ppm 600 mg/m <sup>3</sup>	
1330-20-7	xylene	25 ppm 109 mg/m <sup>3</sup>	H
67-64-1	acetone	250 ppm 600 mg/m <sup>3</sup>	
100-41-4	ethylbenzene	50 ppm 217 mg/m <sup>3</sup>	K

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

<b>Form:</b>	Liquid
<b>Flash point:</b>	- 17
<b>Density:</b>	0,83
<b>Fire class:</b>	I - 1
<b>Explosion limits:</b>	1 - 15
<b>Weight % organic solvents:</b>	100
<b>VOC content (g/liter):</b>	830

## 10. STABILITY AND REACTIVITY:

### Conditions to avoid:

Stable at normal temperature. When exposed to high temperatures, toxic decomposition products may be formed.

### Substances to avoid:

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances.

## 11. TOXICOLOGICAL INFORMATION:

### Inhalation:

Inhalation of vapors may cause symptoms of poisoning such as memory and concentration difficulties, abnormal tiredness, irritability and, in extreme cases, unconsciousness. Prolonged and repeated inhalation of high concentrations may cause damage to liver, kidneys, brain and nervous system.

### Contact with skin:

Organic solvents have a degreasing effect on the skin. Repeated and/or prolonged contact with this product may cause inflammation and irritation. Organic solvents may be absorbed through skin.

### Contact with eyes:

Eye irritation. Splashes in the eye may cause irritation.

### Ingestion:

Chemical pneumonia may occur if organic solvents enter the lungs through vomiting. Accidental swallowing may cause vomiting and stomach pains.

### General information:

Contains Ethylbenzene, which is included in the Danish National Working Environment Authority's list of substances and processes considered to be carcinogenic.

## 12. ECOLOGICAL INFORMATION:

### Ecotoxicity:

Do not dispose of this product in drains, watercourses, or on the ground.

### Mobility:

*Naphtha (petroleum), hydrotreated light*

SPREADING IN THE ENVIRONMENT: This material is easy-flowing and will evaporate quickly if released into the environment. DEGRADABILITY: This material is considered to be degraded easily and to be biologically degradable by OECD's guidelines.

### Degradability:

#### General information:

This product is classified as hazardous to the environment according to the calculation method in the Notification on Classification, Labeling, etc. of chemical substances and products. Please see par. 2 and 15 for further information.

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*Naphtha (petroleum), hydrotreated light*

The compound is expected to be removable in an industrial sewage plant. Poisonous for water-based organisms.

## 13. DISPOSAL CONSIDERATIONS:

### Disposal considerations:

Waste receptacles must be labeled with black text on yellow background: "Contains a substance which is affected by the Danish work environmental legislation, on account of a risk of cancer". Product residues are classified as chemical waste.

**Waste code:** 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

## 14. TRANSPORT INFORMATION:

<b>ADR/RID:</b>	<b>UN no.</b>	1263
	<b>Class:</b>	3
	<b>Packaging group:</b>	II
	<b>Hazard Identification:</b>	33
	<b>Proper Shipping Name:</b>	PAINT RELATED MATERIAL
<b>IMDG:</b>	<b>UN no.</b>	1263
	<b>Class:</b>	3
	<b>Packaging group:</b>	II
	<b>EmS:</b>	F-E, S-E
	<b>Proper Shipping Name:</b>	PAINT RELATED MATERIAL
<b>IATA:</b>	<b>UN no.</b>	1263
	<b>Class:</b>	3
	<b>Packaging group:</b>	II
	<b>Proper Shipping Name:</b>	PAINT RELATED MATERIAL



## 15. REGULATORY INFORMATION:

### General information:

In accordance with the EC Directives 1999/45/EEC; 2001/59/EEC Statutory Order on classification, packaging, labelling, sale and storage of chemical substances and products the product is marked as follows:

**Contains:** butan-1-ol

### Labelling:

F	R11	Highly flammable.
	R20	Harmful by inhalation.
	R38	Irritating to skin.
	R41	Risk of serious damage to eyes.
	R65	Harmful: may cause lung damage if swallowed.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Xn	S16	Keep away from sources of ignition - No smoking.
	S23	Do not breathe vapour.
	S24	Avoid contact with skin.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S33	Take precautionary measures against static discharges.
	S51	Use only in well-ventilated areas.
	S61	Avoid release to the environment Refer to special instructions/Safety data sheets.
	S62	If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

**Special labelling:** Only self-contained breathing apparatus must be used as the product contains volatile liquids the vapors of which are not detained by carbon filters.

### Uses and Restrictions:

Not to be handled by individuals under the age of 18 years, according to Danish Ministry of Employment's ministerial order No. 516 of 14th June 1996, concerning young people in employment.

### Special Education:

Due to a ethylbenzene agent content, this product is affected by Danish National Working Environment Authority's instruction on cancer risk preventive measures when handling substances and products.

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## 16. OTHER INFORMATION:

### R phrases:

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R20/21	Harmful by inhalation and in contact with skin.
R37/38	Irritating to respiratory system and skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### General information:

The information in this Material Safety Data Sheet is based upon our knowledge and on European Union and national legislation. The user's working conditions are outside our control. It is the responsibility of the users to fulfil the requirements set by National Legislation. The information is no guarantee of the properties of the product.

### Training advice:

The instructions in this Material Safety Data Sheet are given on the assumption that the product is used as stated in item 1. Restrictions of use and special training requirements must also be complied with. The information in this Material Safety Data Sheet should be regarded as a description of the safety issues concerning the product.

### Final remarks:

The Material Safety Data Sheet may only be reproduced with the permission of the manufacturer.

### References:

EC Directives 1999/45/EEC, 2001/59/EEC EC Directive 2001/58/EEC

### Drawn up by: GK

1. issue: 2003

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