

## SAFETY DATA SHEET

**MÄRKPENNA Artline 100 24700403**

Last changed: 25/06/2012

Internal No: 24700403

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

#### 1.1 Product identifier

Trade name / designation MÄRKPENNA Artline 100 24700403  
GROUP NAME Märkpennor

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Vendor art. number

24700106

#### 1.3 Details of the supplier of the safety data sheet

##### NATIONAL MANUFACTURER/IMPORTER

Enterprise AB THURE BÜNGER  
Address BRUKSVÄGEN 4  
Postal code 342 35 ALVESTA  
Country SVERIGE  
Telephone +46 472 453 53

#### 1.4 Emergency Telephone Number

Emergency Phone	Type of assistance	Opening Hours
	112	

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

DPD Classification:

CLP Classification:

Most important HSE hazard effects:

#### 2.2 Label elements

Signal word: None

EC-Label: No

#### COMPOSITION

benzyl alcohol ((2-4)), Etanol (45 - 65 %), 1-propanol (5 - 10 %), 2-hydroxipropionat (10 - 20 %)

#### SUPPLEMENTAL HAZARD INFORMATION (EU)

Not classified.

#### 2.3 Other hazards

### 3 Composition/information on ingredients

#### 3.2 Mixtures

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Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
benzyl alcohol		202-859-9	100-51-6	(2-4)	Xn,R20/22	Acute Tox. 4 H302 Acute Tox. 4 H332
Etanol		200-578-6	64-17-5	45 - 65 %	F,R11	Flam. Liq. 2 H225
1-propanol		200-746-9	71-23-8	5 - 10 %	Xn,F,R11 - R41 - R67	Flam. Liq. 2 H225 Eye Dam. 1 H318 STOT SE 3 H336
2-hydroxiopropionat		211-694-1	97-64-3	10 - 20 %	Xi,F,10-37-41	Flam. Liq. 3 H226 Eye Dam. 1 H318 STOT SE 3 H335

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

#### 4 First aid measures

##### 4.1 Description of first aid measures

###### INHALATION

Fresh air and rest.

###### INGESTION

Get medical advice if discomfort develops.

###### SKIN CONTACT

Wash off with soap and water. Get medical attention if any discomfort continues.

###### EYE CONTACT

Flush well with running water. Hold eyelids apart. Get medical advice if discomfort continues.

##### 4.2 Most important symptoms and effects, both acute and delayed

##### 4.3 Indication of any immediate medical attention and special treatment needed

#### 5 Fire-fighting measures

##### 5.1 Extinguishing media

###### SUITABLE EXTINGUISHING MEDIA:

Can be extinguished with water mist, powder, foam or carbon dioxide.

##### 5.2 Special hazards arising from the substance or mixture

##### 5.3 Advice for fire-fighters

#### 6 Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.2 Environmental precautions

##### 6.3 Methods and material for containment and cleaning up

###### METHODS AND MATERIAL

Can be treated as ordinary waste.

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### 6.4 Reference to other sections

## 7 Handling and Storage

### 7.1 Precautions for safe handling

#### PRECAUTION FOR SAFE HANDLING

Industrial experience indicates that normal handling does not cause serious damage.

### 7.2 Conditions for safe storage, including any incompatibilities

#### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Keep container tightly closed and dry.  
Keep in a cool place.  
Keep away from ignition sources.

### 7.3 Specific end uses

## 8 Exposure controls / Personal protection

### 8.1 Control parameters

#### OEL value

Ingredient name	CAS no.	Range	ppm	mg/m3	Year	Notification
2-hydroxiopropionat	97-64-3	8 h		25	2001	
Etanol	64-17-5	15 min.				
Etanol	64-17-5	8 h	500	1000	2000	

R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic

### 8.2 Exposure controls

#### APPROPRIATE ENGINEERING CONTROLS

Provide good ventilation.

#### EYE PROTECTION

Avoid contact with eyes.

#### SKIN PROTECTION

Arrange working conditions to avoid prolonged contact.

## 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Not translated to English

**ODOUR** Not translated to English

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Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	No data		
Flash point	16 °C		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	No data		
Explosion limits	No data		
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temprature	470 °C		
Decomposition temprature	No data		
Viscosity	No data		

### 9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Bläckets täthet	0,9-1g/cm <sup>3</sup>		

Note no.	Comments

### 10 Stability and Reactivity

#### 10.1 Reactivity

#### 10.2 Chemical stability

##### CHEMICAL STABILITY

Unstable if heated.

#### 10.3 Possibility of hazardous reactions

#### 10.4 Conditions to avoid

#### 10.5 Incompatible materials

##### INCOMPATIBLE MATERIALS

Acids.

#### 10.6 Hazardous decomposition products:

### 11 Toxicological information

#### 11.1 Toxicological effects

benzyl alcohol				
Route of exposure	Exposure time	Value/unit	Species	Source
LC50 (Inhalation)	4h	> 4500 ml/m <sup>3</sup>	råtta	
LD50 (Oral)		1260 mg/kg	råtta	

1-propanol				
Route of exposure	Exposure time	Value/unit	Species	Source
LC50 (Inhalation)	4h	4000 ppm	råtta	
LD50 (Oral)		1870 mg/kg	råtta	

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### ACUTE TOXICITY - DERMAL

Prolonged or repeated contact may cause irritation.

### OTHER TOXICOLOGICAL INFORMATION

Not translated to English

## 12 Ecological information

### 12.1 Toxicity

#### benzyl alcohol

Test	Exposure time	Value/unit	Species	Source
IC50 (Acute algae)	72h	100 mg/l	alg	
LC50 (Acute fish)	96h	10 mg/l	fisk	

#### 1-propanol

Test	Exposure time	Value/unit	Species	Source
IC50 (Acute algae)	72h	38 mg/l	alg	
LC50 (Acute fish)	96h	640 mg/l	fisk	

### ECOTOXICITY

Not regarded as dangerous for the environment.

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

### 12.6 Other adverse effects

### OTHER INFORMATION

Not translated to English

## 13 Disposal considerations

### 13.1 Waste treatment methods

#### GENERAL REGULATIONS

Can be treated as ordinary waste. EWC 080112 Municipal authorities must be informed of all major spills.

## 14 Transport information

Classified as Dangerous Goods: **No**

#### Land transport (ADR/RID)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Hazard label(s)	Not applicable.		
Hazard ID:	Not applicable.	Tunnel restriction code	Not applicable.

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### Inland water ways transport (ADN)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.	<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.3 Class(es)</b>	Not applicable.		
<b>Enviromentally hazardous in tank-vessels</b>	Not applicable.		

### Sea transport (IMDG)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.	<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.3 Class(es)</b>	Not applicable.		
<b>Sub Risk:</b>	Not applicable.		
<b>IMDG Code segregation group</b>	Not applicable.		
<b>Marine pollutant</b>	Not applicable.		
<b>EMS:</b>	Not applicable.		

### Air transport (ICAO-TI / IATA-DGR)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.	<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.3 Class(es)</b>	Not applicable.		
<b>Hazard label(s)</b>	Not applicable.		

## 15 Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2 Chemical Safety Assessment**

### OTHER INFORMATION

Not translated to English

## 16 Other information

### LIST OF RELEVANT R-PHRASES

R10	Flammable.
R11	Highly flammable.
R20/22	Harmful by inhalation and if swallowed.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R67	Vapours may cause drowsiness and dizziness.

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### LIST OF RELEVANT H-STATEMENTS

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.