

## SAFETY DATA SHEET

### MÄRKPENNA ARTLINE SOLIDM. 138110101

Last changed: 11/05/2012

Internal No: 138110101

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

##### 1.1 Product identifier

Trade name / designation    MÄRKPENNA ARTLINE SOLIDM. 138110101

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

##### 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

#### 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

N-BUTOXI-2-PROPANOL (17 - 24 %), 2-Butoxietanol (11 - 14 )

##### 2.3 Other hazards

###### OTHER HAZARDS

Irritating to eyes and skin.

#### 3 Composition/information on ingredients

##### 3.2 Mixtures

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
N-BUTOXI-2-PROPANOL		225-878-4	5131-66-8	17 - 24 %	Xi,F,R11 - R36/38	Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319
2-Butoxietanol		203-905-0	111-76-2	11 - 14	Xn,R11 - R20/21/22 - R36/38	Flam. Liq. 2 H225 Acute Tox. 4 H302/312/332 Skin Irrit. 2 H315 Eye Irrit. 2 H319

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

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

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### 4 First aid measures

#### 4.1 Description of first aid measures

##### INHALATION

Fresh air and rest. Get medical attention if any discomfort continues.

##### INGESTION

Drink a couple of glasses of water or milk. Get medical attention if any discomfort continues.

##### SKIN CONTACT

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

##### EYE CONTACT

Important! Immediately rinse with water for at least 5 minutes. Hold eyelids apart. Get medical attention if any 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

#### 6.4 Reference to other sections

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

##### PRECAUTION FOR SAFE HANDLING

Use only in well-ventilated areas.

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

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

Keep container tightly closed. Avoid high temperatures and direct sunlight. Always keep away from sources of ignition.

#### 7.3 Specific end uses

### 8 Exposure controls / Personal protection

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### 8.1 Control parameters

### 8.2 Exposure controls

#### APPROPRIATE ENGINEERING CONTROLS

Use only in well-ventilated areas. Avoid contact with skin and eyes.

## 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

**ODOUR** Ether-like odour

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	~ 140 °C		
Freezing point	No data		
Initial boiling point and boiling range	No data		
Flash point	No data		
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 temperature	No data		
Decomposition temperature	No data		
Viscosity	No data		

### 9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Density	< 1 g/cm <sup>3</sup>		

Note no.	Comments

## 10 Stability and Reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

#### CONDITIONS TO AVOID

Strong acids. Strong alkalis.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products:

## 11 Toxicological information

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### 11.1 Toxicological effects

#### SKIN CORROSION/IRRITATION

Irritant

#### SERIOUS EYE DAMAGE/IRRITATION

Irritant

### 12 Ecological information

#### 12.1 Toxicity

#### 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

### 13 Disposal considerations

#### 13.1 Waste treatment methods

#### GENERAL REGULATIONS

Disposal of larger quantities should be carried out by specially-trained personnel or authorised refuse contractors.

### 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.

#### Inland water ways transport (ADN)

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.		
Environmentally hazardous in tank-vessels	Not applicable.		

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<b>Sea transport (IMDG)</b>			
<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.		

<b>Air transport (ICAO-TI / IATA-DGR)</b>			
<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**

### 16 Other information

<b>LIST OF RELEVANT R-PHRASES</b>	
R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.

<b>LIST OF RELEVANT H-STATEMENTS</b>	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H302/312/332	Harmful if swallowed, in contact with skin or if inhaled.