

SAFETY DATA SHEET

MÄRKPENNA ARTLINE 17600164

Last changed: 31/05/2012

Internal No: 17600164

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

1.1 Product identifier

Trade name / designation MÄRKPENNA ARTLINE 17600164

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

Etanol (45 - 65 %), ethyl .sc.DL.sc.-lactate, ethyl lactate (10 - 20 %), benzyl alcohol (2 - 4 %), 1-propanol (5 - 10 %)

2.3 Other hazards

OTHER HAZARDS

NOT TRANSLATED Protracted or repeated exposure may irritate the eyes and skin.

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
Etanol		200-578-6	64-17-5	45 - 65 %	F,R11	Flam. Liq. 2 H225
ethyl .sc.DL.sc.-lactate, ethyl lactate		202-598-0	97-64-3	10 - 20 %	Xi,R10 - R37 - R41	Flam. Liq. 3 H226 Eye Dam. 1 H318 STOT SE 3 H335
benzyl alcohol		202-859-9	100-51-6	2 - 4 %	Xn,R20/22	Acute Tox. 4 H302 Acute Tox. 4 H332
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

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

Provide rest, warmth and fresh air.

INGESTION

DO NOT INDUCE VOMITING! Consult a doctor if symptoms should occur.

SKIN CONTACT

Wash skin with soap and water.

EYE CONTACT

Rinse immediately with plenty of water. 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:

Fire may be extinguished using powder, foam or carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters

ADVICE FOR FIREFIGHTERS

Larger fires: Respiratory protection may be required.

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

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METHODS AND MATERIAL

Collect mechanically. May be removed like normal waste.

6.4 Reference to other sections

7 Handling and Storage

7.1 Precautions for safe handling

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 sources of ignition.

7.3 Specific end uses

8 Exposure controls / Personal protection

8.1 Control parameters

OEL value

Ingredient name	CAS no.	Range	ppm	mg/m ³	Year	Notification
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

Use only in well-ventilated areas.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

SKIN PROTECTION

Avoid prolonged or repeated contact.

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

PHYSICAL STATE NOT TRANSLATED

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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
Density	0,9 g/cm ³		

Note no.	Comments

10 Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

CHEMICAL STABILITY

NOT TRANSLATED

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products:

11 Toxicological information

11.1 Toxicological effects

SKIN CORROSION/IRRITATION

Protracted or repeated contact may irritate the skin.

SERIOUS EYE DAMAGE/IRRITATION

May be irritating to eyes.

12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

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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

May be removed like normal waste. In the event of major emissions, contact the relevant authorities.

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.		

Sea transport (IMDG)

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.		
Sub Risk:	Not applicable.		
IMDG Code segregation group	Not applicable.		
Marine pollutant	Not applicable.		
EMS:	Not applicable.		

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Air transport (ICAO-TI / IATA-DGR)

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.		

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

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.

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.