

SAFETY DATA SHEET

MÄRKPENNA, Artline EK-750, svart. 27120104

Last changed: 25/06/2012

Internal No: 27120104

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

1.1 Product identifier

Trade name / designation MÄRKPENNA, Artline EK-750, svart. 27120104
GROUP NAME Märkpennor

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

Vendor art. number

27120104

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

Etanol (30 - 60), 4-methoxy-4-methylpentan-2-one (5 - 15), Propylenglykolmonometyleter (30 - 60)

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
Etanol		200-578-6	64-17-5	30 - 60	F,R11	Flam. Liq. 2 H225
4-methoxy-4-methylpentan-2-one		203-512-4	107-70-0	5 - 15	Xn,R10 - R20	Flam. Liq. 3 H226 Acute Tox. 4 H332
Propylenglykolmonometyleter		203-539-1	1320-67-8	30 - 60	F+,10	Flam. Liq. 3 H226

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.

EYE CONTACT

Rinse immediately with plenty of water. 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.

6.4 Reference to other sections

SAFETY DATA SHEET

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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
Propylenglykolmonometyleter	1320-67-8	8 h		250	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	20 °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 temperature	No data		
Decomposition temperature	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

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

4-methoxy-4-methylpentan-2-one				
Route of exposure	Exposure time	Value/unit	Species	Source
LC50 (Inhalation)		> 12,3 mg/l	mus	
LC50 (Oral)		> 3000 mg/kg	råtta	

Propylenglykolmonometyleter				
Route of exposure	Exposure time	Value/unit	Species	Source
LC50 (Inhalation)		54,6 mg/l	råtta	
LD50 (Oral)		5660 mg/kg	råtta	

12 Ecological information

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12.1 Toxicity

4-methoxy-4-methylpentan-2-one

Test	Exposure time	Value/unit	Species	Source
LC50 (Acute fish)	96h	3800 mg/l	fisk	

Propylenglykolmonometyleter

Test	Exposure time	Value/unit	Species	Source
EC50 (Acute Daphnia)	48h	100 mg/l	daphnia	
LC50 (Acute fish)	96h	20880 mg/l	fisk	

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

Can be treated as ordinary waste.

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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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.		

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

OTHER INFORMATION

Not classified.

16 Other information

LIST OF RELEVANT R-PHRASES

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.

LIST OF RELEVANT H-STATEMENTS

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.