

## SAFETY DATA SHEET

**MÄRKPENNA, Artline 400-XF, vit 27100197**

Last changed: 25/06/2012

Internal No: 27100197

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

#### 1.1 Product identifier

Trade name / designation MÄRKPENNA, Artline 400-XF, vit 27100197  
GROUP NAME Märkpennor

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

RELEVANT IDENTIFIED USES Metal.  
Plastic.  
Glass.  
Rubber.

#### Vendor art. number

27100205

#### 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

Bindemedel ((20-30)), Titanvitt ((30-40)), Metylcyklohexan (30 - 50 ), Alifatiskt lösningsmedel (1 - 10 )

##### 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
Bindemedel			69430-35-9	(20-30)		
Titanvitt		236-675-5	13463-67-7	(30-40)		
Metylcyklohexan		203-624-3	108-87-2	30 - 50	Xn,F,N,R11 - R38 - R51/53 - R65 - R67	Flam. Liq. 2 H225 Acute Tox. 4 H302 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411
Alifatiskt lösningsmedel		265-150-3	64742-48-9	1 - 10	Xn,F+,N,R12 - R38 - R51/53 - R65 - R67	Flam. Liq. 1 H224 Flam. Liq. 2 H225 Acute Tox. 4 H302 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411

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

DO NOT INDUCE VOMITING!

Get medical advice if discomfort develops.

###### SKIN CONTACT

Wash off with soap and water.

###### EYE CONTACT

Flush well with running 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:

CO<sub>2</sub>, foam, dry chemical.

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

###### SPECIAL HAZARDS

Highly flammable.

##### 5.3 Advice for fire-fighters

###### ADVICE FOR FIREFIGHTERS

Large fires: Respiratory protection may be necessary.

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### 6 Accidental release measures

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

#### 6.2 Environmental precautions

##### ENVIRONMENTAL PRECAUTIONS

Prevent discharge to drains.

#### 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

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

##### PRECAUTION FOR SAFE HANDLING

Always keep away from sources of ignition.

#### 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

#### 8.2 Exposure controls

##### APPROPRIATE ENGINEERING CONTROLS

Provide good ventilation.

##### EYE PROTECTION

Avoid contact with eyes.

### 9 Physical and chemical Properties

#### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Not translated to English

**COLOUR** 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	13 °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	No data		
Decomposition temprature	No data		
Viscosity	No data		

### 9.2 Other safety information

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

### 10.6 Hazardous decomposition products:

## 11 Toxicological information

### 11.1 Toxicological effects

Metylcyklohexan				
Route of exposure	Exposure time	Value/unit	Species	Source
LC50 (Inhalation)	10h	41500 ppm	mus	
LD50 (Oral)		2250 mg/kg	mus	

#### ACUTE TOXICITY - ORAL

Ingestion of large quantity may cause:

#### ACUTE TOXICITY - DERMAL

The product is irritating and causes defatting/drying.

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### ACUTE TOXICITY - INHALATION

Normal use of the product is expected to be of low health hazard. Prolonged or repeated exposure to this chemical may cause: May cause irritation to the respiratory tract. Headache.

### SERIOUS EYE DAMAGE/IRRITATION

Smarting.

## 12 Ecological information

### 12.1 Toxicity

#### Metylcyklohexan

Test	Exposure time	Value/unit	Species	Source
EC50 (Acute Daphnia)	48h	1,47 mg/l	daphnia	
IC50 (Acute algae)	72h	6 mg/l	alg	
LC50 (Acute fish)	96h	0,24 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

#### OTHER INFORMATION

Dangerous for the environment

## 13 Disposal considerations

### 13.1 Waste treatment methods

#### GENERAL REGULATIONS

Can be treated as ordinary waste. EWC 080112 Larger spill: Treat as dangerous 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.

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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 classified.

## 16 Other information

### VENDOR NOTES

Information in this safety data sheet is based on our present knowledge, and is intended to be a description of the health and safety aspects of the product.

### LIST OF RELEVANT R-PHRASES

R11	Highly flammable.
R12	Extremely flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

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**LIST OF RELEVANT H-STATEMENTS**

H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.