

## SAFETY DATA SHEET

**MÄRKPENNA, Artline 400-XF, svart. 27100106**

Last changed: 25/06/2012

Internal No: 27100106

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

#### 1.1 Product identifier

Trade name / designation MÄRKPENNA, Artline 400-XF, svart. 27100106  
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

27100106

#### 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

Metylcyklohexan (30 - 50 %), Alifatiskt lösningsmedel (10 - 10 %), Bindemedel (40 - 50 %), Carbon Black (kimrök) (5 - 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                                                                                                            |
|--------------------------|--------|-----------|------------|-------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Metylcyklohexan          |        | 203-624-3 | 108-87-2   | 30 - 50 %   | Xn,F,N,R11 - R38 - R51/53 - R65 - R67  | Flam. Liq. 2 H225<br>Acute Tox. 4 H302<br>Skin Irrit. 2 H315<br>STOT SE 3 H336<br>Aquatic Chronic 2 H411                      |
| Alifatiskt lösningsmedel |        | 265-150-3 | 64742-48-9 | 10 - 10 %   | Xn,F+,N,R12 - R38 - R51/53 - R65 - R67 | Flam. Liq. 1 H224<br>Flam. Liq. 2 H225<br>Acute Tox. 4 H302<br>Skin Irrit. 2 H315<br>STOT SE 3 H336<br>Aquatic Chronic 2 H411 |
| Bindemedel               |        |           | 69430-35-9 | 40 - 50 %   |                                        |                                                                                                                               |
| Carbon Black (kimrök)    |        | 215-609-9 | 1333-86-4  | 5 - 10 %    |                                        |                                                                                                                               |

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 attention if any discomfort continues.

###### SKIN CONTACT

Wash off with soap and water.

###### EYE CONTACT

Immediately rinse with water. Get medical attention promptly if symptoms occur after washing.

##### 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 temperature               | No data    |                  |             |
| Decomposition temperature               | 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.

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## 12 Ecological information

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### 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

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## 13 Disposal considerations

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### 13.1 Waste treatment methods

#### GENERAL REGULATIONS

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

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## 14 Transport information

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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. |