

## MATERIAL SAFETY DATA SHEET

according to 1907/2006/EC, article 31

CB 140 PELL W 94, CB 260 PELL W 94



Date of issue: 2015-06-01

Edition: 2, revision 1

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product identifier

Product name: CB 140 PELL W 94, CB 260 PELL W 94

Substance: ALUMINIUM PELLETS

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

Identified uses: Pigments

#### 1.3 Details of the supplier of the safety data sheet.

Manufacturer: CARLFORS BRUK AB  
BOX 44  
SE-561 21 HUSKVARNA SWEDEN  
Tel: +46 36389500  
Fax: +46 36141754  
E-mail: cb@carlfors.se

#### 1.4 Emergency telephone number.

Emergency number: +46 8337043

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

Classification according to: CLP/GHS EC No 1272/2008.

Not classified.

Note T regulation (EC) No 1272/2008: This product may be marketed in a form which does not have the physical hazards as indicated in the entry in part 3. Tests were done according to Transport of dangerous goods, Manual of tests and criteria.

Additional Information: See section 16.

#### 2.2 Label elements:

Label elements according to Regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms:**

**Signal word:**

**Hazard Statements:**

## MATERIAL SAFETY DATA SHEET

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### Precautionary statements:

#### 2.3 Other hazards:

No additional information available.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

#### 3.2 Mixtures

Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
Aluminium powder	7429-90-5	231-072-3	01-2119529243-45-0051	92-96
<b>GHS/CLP-classification:*</b>	Flam. Sol. 1, H228			

Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
Polyethylene wax	9002-88-4			4-8
<b>GHS/CLP-classification:*</b>				

\* See section 16.

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures:

**General information:** No additional information available.

**Inhalation:** Fresh air and rest.

**Skin contact:** Take of contaminated clothes, wash skin with water and soap.

**Eye contact:** Remove any contact lenses. Rinse immediately with plenty of water, also under the eyelids. Call doctor if irritation persists.

**Ingestion:** Call doctor.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media:

**Suitable extinguishing agents:** Extinguish fire with sand and/or rock wool. Can also be extinguished with foam or carbon dioxide.

**Unsuitable extinguishing agents:** Do not use water.

**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.

**5.3 Advice for firefighters:** No special measures required.

## MATERIAL SAFETY DATA SHEET

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### 6. ACCIDENTAL RELEASE MEASURES

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

Wear appropriate protective equipment.

#### 6.2 Environmental precautions:

Do not allow product to reach sewage system or water resources. Inform authorities in case product reaches water or sewage system.

#### 6.3 Methods and material for containment and cleaning up:

Collect mechanically and put in a dry receptacle. Dispose of waste material in accordance with local, state or federal regulations.

#### 6.4 Reference to other sections:

See section 7 for information on safe handling. See section 8 for protective equipment. See section 13 for waste treatment methods.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

Mechanical ventilation and local exhaust can be needed. Prevent formation of dust. Keep packing closed as far as possible. No smoking, fire, sparks or welding. Prevent sparks arising from static electricity. Water for eye flushing to be available.

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

Store in a dry place in tightly closed containers. Keep away from sources of ignition-No smoking.

#### 7.3 Specific end use(s):

See section 1, identified uses.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters:

In the CSR: proposed DNEL long-term, worker for aluminium metal powder/dust = 3 mg aluminium / m<sup>3</sup>, respirable, 8 hour TWA. PNEC-values from 46-17800 µg/l depending on water chemistry.

#### Occupational exposure limits ( limit value - eight hours):

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	Aluminium powder
Austria	10 mg/m <sup>3</sup>
Canada - Québec	10 mg/m <sup>3</sup>
Denmark	5 mg/m <sup>3</sup> (inhalable aerosol) 2 mg/m <sup>3</sup> (respirable)
France	10 mg/m <sup>3</sup> (inhalable aerosol) 5 mg/m <sup>3</sup> (respirable aerosol)
Germany	4 mg/m <sup>3</sup> (inhalable aerosol) 1,5 mg/m <sup>3</sup> (respirable aerosol)
Hungary	6 mg/m <sup>3</sup> (respirable aerosol)
Spain	5 mg/m <sup>3</sup> (respirable aerosol) 10 mg/m <sup>3</sup> (inhalable aerosol)
United Kingdom	4 mg/m <sup>3</sup> (respirable aerosol) 10 mg/m <sup>3</sup> (inhalable aerosol)
USA	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)

### 8.2 Exposure controls:

**General protective and hygienic measures:** Wash hands during breaks and at the end of the work. Keep away from foodstuffs, beverages and feed. Do not eat, drink, smoke or sniff while working.

**Personal protective equipment:**

**Breathing equipment:** Not required.

**Protection of hands:** Protective gloves for chemicals is not necessary.

**Eye protection:** Use protective goggles if necessary.

**Skin protection:** Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

\* Refer to aluminium

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

Appearance	Pellets, gray
Odour	Odourless
Odour threshold	NA
pH	NA
Melting point/freezing point (°C)	* 660
Initial boiling point/boiling range (°C)	NA
Flash point (°C)	NA
Evaporation rate	No information
Flammability (solid, gas)	Not classified as flammable solid.
Upper/lower flammability/explosive limits	NA

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CB 140 PELL W 94, CB 260 PELL W 94



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Vapour pressure (kPa)	NA
Vapour density (air=1)	NA
Density (g/cm <sup>3</sup> )	0,8-1,2 (Density = volume weight)
Solubility in water (weight-%)	Insoluble
Partition coefficient, log Pow	No information
Auto-ignition temperature (°C)	No information
Decomposition temperature (°C)	No information
Viscosity	NA
Explosive properties	No
Oxidising properties	No
9.2 Other information:	No additional information.

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity:

Not classified as flammable solid.

#### 10.2 Chemical Stability:

The product is stable if used and stored according to specifications.

#### 10.3 Possibility of hazardous reactions:

Hydrogen development with water, alkali and acid.

#### 10.4 Conditions to avoid:

Keep away from sources of ignition and heat.

#### 10.5 Incompatible material:

Reacts with alkalis, acids, water and oxidizing agents.

#### 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

Aluminium powder: Oral LD50 (rat) > 2000 mg/kg bw. Inhalation LC50 (rat) > 888 mg/m<sup>3</sup>. Inhalation NOAEC (rat) = 10 mg/m<sup>3</sup>.

PE wax: LD50 (rat) > 2000 mg/kg bw.

Inhalation: No adverse effects are anticipated from single exposure to vapor.

Skin contact: No irritant effect.

Eyes: May cause smart.

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Ingestion: Low toxicity if swallowed.

Aluminum powder and ethen/1-octene copolymer is not carcinogenic, mutagenic or toxic to reproduction.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity:

Aluminium powder and PE wax are not classified as dangerous for the environment.

#### 12.2 Persistence and degradability:

No information.

#### 12.3 Bioaccumulative potential:

No information

#### 12.4 Mobility in soil:

Aluminium pellets is a solid material and is not expected to penetrate into the soil.

#### 12.5 Results of PBT and vPvB assessments:

This product is not, or does not contain, a substance that is a PBT or a vPvB.

#### 12.6 Other adverse affects:

No additional information available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Dispose of waste material in accordance with local, state or federal regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue: 12 01 04 – Non-ferrous metal dust and particles.

### 14. TRANSPORT INFORMATION

	ADR/RID	IATA	IMDG
14.1 UN No			
14.3 Transport hazard class(es)			
14.4 Packing group			
EmS No			
Tunnel category			

Not classified as dangerous goods.

#### 14.2 UN proper shipping name:

14.5 Environmental hazards: No

#### 14.6 Special precautions for user:

Handling and storage according to section 7.

#### 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:

NA

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### 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Reference: 67/548/EEC, 1999/45/EC, 1907/2006/EC, 1272/2008/EC, 453/2010/EC, IFA-databases on hazardous substances (GESTIS), CSR for aluminium and Material safety data sheet for polyethylene wax.

15.2 Chemical safety assessment: No

### 16. OTHER INFORMATION

H228 Flammable solid.

Revision has been done under following point 2, 3, 8 and 16. Take the place of 2014-06-27.