

## SAFETY DATA SHEET

according to 1907/2006/EC, article 31

CBright 1000 SI, CBright 3214 SI, CBright 5212 SI



Revision date: 2018-02-22

Version: 2, revision 1

Replace: 2016-03-29

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

#### 1.1 Product identifier

Product name: CBright 1000 SI, CBright 3214 SI, CBright 5212 SI

Substance: ALUMINIUM PIGMENT FOR COATINGS

#### 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

### SECTION 2. HAZARDS IDENTIFICATION

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

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

Skin irrit. 2 H315

Eye Irrit. 2 H319

Aquatic Chronic 3. H412

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 dection 16.

#### 2.2 Label elements:

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

Hazard pictograms: GHS07



Signal word: Warning

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**Hazard Statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P370 + P378 In case of fire: Use sand, mineral wool or special powder for metal fire, never use water, halones, foam or carbon dioxide.

**2.3 Other hazards:**

No additional information available.

**SECTION 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	79-81
<b>GHS/CLP-classification:*</b>	Flam. Sol. 1, H228			

Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
Alcohols C6-12 ethoxylate	68439-45-2			< 10
<b>GHS/CLP-classification:*</b>	Skin Irrit. 2. H315, Eye Irrit. 2. H319			

Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
Polyoxy- alkylene amine derivative				< 10
<b>GHS/CLP-classification:*</b>	Eye Irrit. 2. H319			

Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
Trizinc bis(ortophosphate)	7779-90-0	231-944-3		0,25-0,5
<b>GHS/CLP-classification:*</b>	Aquatic acute 1. H400, Aquatic Chronic 1. H410			

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Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
Zinc oxide	1314-13-2	215-222-5		0,25-0,5
<b>GHS/CLP-classification:*</b>	Aquatic acute 1. H400, Aquatic Chronic 1. H410			

\* See section 16.

### SECTION 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures:

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

**Inhalation:** In case of unconsciousness place patient stably in side position for transportation.

**Skin contact:** Immediately wash with water and soap and rinse thoroughly.

**Eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**Ingestion:** If symptoms persist consult doctor.

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

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

### SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media:

**Suitable extinguishing agents:** Extinguish fire with sand and mineral wool. Can also be extinguished with foam or carbon dioxide during the first minutes when the solvent in the aluminium paste is burning. After a short time, when the solvent has burned, it is a metal fire, and then only use sand, mineral wool or special powder for metal fires.

**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.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Eliminate fire risk by keeping ignition sources out of the area.

#### 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. Absorb with liquid binding material (sand, diatomite, universal binders, sawdust) and put in a dry receptacle. Do not flush with water or aqueous cleaning agents. Dispose of waste material in accordance with local, state or federal regulations.

#### 6.4 Reference to other sections:

See section 8 for protective equipment. See section 13 for waste treatment methods.

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**CBright 1000 SI, CBright 3214 SI, CBright 5212 SI**



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### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

Mechanical ventilation and local exhaust can be needed. Keep drums closed as far as possible. Avoid direct contact with aluminium paste. No smoking, fire, sparks or welding. Prevent sparks arising from static electricity.

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. Water for eye flushing to be available.

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

Store in a cool, 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.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters:

DNEL long-term, worker, for aluminium metal powder/dust is 3,72 mg aluminium/m<sup>3</sup>.

PNEC-values from 46-17800 µg/l depending on water chemistry.

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

	Aluminium powder	Diisononyl phthalate
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)	3 mg/m <sup>3</sup>
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)	5 mg/m <sup>3</sup>
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.

## SAFETY DATA SHEET

according to 1907/2006/EC, article 31

CBright 1000 SI, CBright 3214 SI, CBright 5212 SI



Revision date: 2018-02-22

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**Protection of hands:** Wear suitable gloves (EN 374), for example nitrile rubber. Change protective gloves regularly.

**Eye protection:** Tightly sealed goggles.

**Skin protection:** Protective clothing.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Pasty, silver grey
Odour	Fish-like
Odour threshold	Not determined
pH	NA
Melting point/freezing point (°C)	Not determined
Initial boiling point/boiling range (°C)	361
Flash point (°C)	> 100
Evaporation rate	No information
Flammability (solid, gas)	Not classified as flammable solid.
Upper/lower flammability/explosive limits	Not determined
Vapour pressure (kPa)	NA
Vapour density (air=1)	NA
Density (g/cm <sup>3</sup> )	2,03-2,08
Solubility in water (weight-%)	Insoluble
Partition coefficient, log Pow	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	NA
Explosive properties	Not determined
Oxidising properties	No information
9.2 Other information:	No additional information available.

### SECTION 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:

No dangerous reactions known.

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according to 1907/2006/EC, article 31

**CBright 1000 SI, CBright 3214 SI, CBright 5212 SI**



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### 10.4 Conditions to avoid:

No further relevant information available.

### 10.5 Incompatible material:

No further relevant information available.

### 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

## SECTION 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>.

Trizinc bis(orthophosphate): Oral LD50 (rat) > 5000 mg/kg.

Zinc oxide: Oral LD50 (rat) > 5000 mg/kg.

Inhalation: -

Skin contact: Causes skin irritation.

Eyes: Causes serious eye irritation.

Ingestion: -

The aluminium paste does not contain substances which is carcinogenic, mutagenic or toxic to reproduction.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Aluminium powder is not classified as dangerous for the environment.

Trizinc bis(orthophosphate) and zinc oxide are very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

No information

### 12.3 Bioaccumulative potential:

No information.

### 12.4 Mobility in soil:

Aluminium paste 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 effects:

Wayer hazard class 1 (German regulation).

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

**SAFETY DATA SHEET**

according to 1907/2006/EC, article 31



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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.

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.

**SECTION 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

**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Reference: EC no. 1907/2006, EC no. 1272/2008, EC no. 453/2010, (EU) 2015/830, IFA-databases on hazardous substances (GESTIS), CSR for aluminium and Material safety data sheets for polyoxy- alkylene amine derivative, alcohols C6-12 ethoxylate, zinc oxide and trizinc bis(orthophosphate).

**15.2 Chemical safety assessment:** No**SECTION 16. OTHER INFORMATION**

H228 Flammable solid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Flam. Sol. 1 = Flammable solid, category 1

Skin Irrit. 2 = Skin corrosion/irritation, category 2

Eye Irrit. 2 = Serious eye damage/eye irritation, category 2

Aquatic Chronic 1 = Hazardous to the aquatic environment, category 1

Aquatic acute 1 = Hazardous to the aquatic environment, category 1

Aquatic Chronic 3 = Hazardous to the aquatic environment, category 3

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### List of abbreviations

ADR Accord Européen relatif au transport international des marchandises dangereuses par Route.

CAS No. Chemical abstracts service number.

CLP Regulation on Classification, Labelling and packaging of Substances and Mixtures.

CSR Chemical safety report

DNEL Derived NO-Effect Level.

EINECS European Inventory of Existing Commercial Substances.

EWC European Waste Catalogue.

IATA International Air Transport Association

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods

IMO International Maritime Organization

LC Lethal Concentration

LD Lethal Dose

Marpol International Convention for the Prevention of Pollution from ships.

NOAL No observable adverse effect level.

NOEL/NOEC No observed – effect level/concentration.

PBT Persistent, biaccumulative, toxic.

PNEC Predicted No-Effect Concentration.

REACH Registration, Evaluation, Authorisation, and restriction of Chemicals.

RID Règlement concernant le transport international ferroviaire de marchandises dangereuses.

TWA Time-weighted average.

vPvB Very persistent, very biaccumulative

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Revision has been done under section 2, 3, 9, 12 and 16. Take the place of 2016-03-29.