

SAFETY DATA SHEET

according to 1907/2006/EC, article 31

CB 105 65, CB 180 65, CB 180S 65, CBright 180S 65, CB 200S 65, CB 180S NL 65, CB 180S NL 65 T, CB 200S NL 65, CBright 180S NL 65, CBright 200S NL 65



Revision date: 2019-05-22
Version: 13, revision 12
Replace: 2017-03-07

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

1.1 Product identifier

Product name: CB 105 65, CB 180 65, CB 180S 65, CBright 180S 65, CB 200S 65, CB 180S NL 65, CB 180S NL 65 T, CB 200S NL 65, CBright 180S NL 65, CBright 200S NL 65

Substance: ALUMINIUM PASTE IN WHITE SPIRIT

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
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.

Flam. Sol. 1. H228

Stot SE 3. H336

STOT RE 1. H372

Aquatic Chronic 2. H411

EUH066

Note T regulation (EC) No 1272/2008: This substance 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: GHS02, GHS07, GHS08, GHS09

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Signal word: Danger

Hazard Statements:

H228 Flammable solid.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure. Central Nervous system.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

P402 + P404 Store in a dry place. Store in a closed container.

2.3 Other hazards:

When heated, material can release vapours which may form flammable mixtures with air. Vapors are heavier than air and may spread along floors.

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	63-67
GHS/CLP-classification:*	Flam. Sol. 1, H228			

Chemical name	Cas-no:	Einecs no:	REACH registration no:	Contents %
White spirit		919-446-0	01-2119458049-33-xxxx	33-37
GHS/CLP-classification:*	Aquatic Chronic 2. H411, Asp. Tox. 1. H304, Flam. Liq. 3. H226, STOT RE 1. H372, STOT SE 3. H336, EUH066			

* See section 16.

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SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures:

General information: No additional information available.

Inhalation: Fresh air and rest, possibly breathing help.

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

Eye contact: Remove any contact lenses. Rinse immediately with plenty of water, also under the eyelids. Continue irrigation for several minutes. Call doctor if irritation persists.

Ingestion: Don't induce vomiting. Call doctor. Rinse mouth with water and drink water.

4.2 Most important symptoms and effects, both acute and delayed: See section 11.

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

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: When heated, material can release vapours which may form flammable mixtures with air. Vapors are heavier than air and may spread along floors.

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 and explosion 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. Pay attention to the fire, explosion and health hazards caused by the product. 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 7 for safe handling. See section 8 for protective equipment. See section 13 for waste treatment methods.

SECTION 7. HANDLING AND STORAGE

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7.1 Precautions for safe handling:

Good ventilation. 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, well-ventilated, dry place in tightly closed containers. Protect from direct sunlight. 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/m³.
PNEC-values from 46-17800 µg/l depending on water chemistry.

Worker: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%). Dermal: 44 mg/kg bw/day DNEL, Chronic Exposure, Systemic Effects. Inhalation: 330 mg/m³ DNEL, Chronic Exposure, Systemic Effects.

Occupational exposure limits (limit value - eight hours):

	Aluminium powder
Austria	10 mg/m ³
Belgium	10 mg/m ³
Denmark	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable)
France	10 mg/m ³ (inhalable aerosol) 5 mg/m ³ (respirable aerosol)
Germany	4 mg/m ³ (inhalable aerosol) 1,5 mg/m ³ (respirable aerosol)
Hungary	6 mg/m ³ (respirable aerosol)
Romania	2 mg/m ³ (respirable aerosol)
Spain	5 mg/m ³ (respirable aerosol) 10 mg/m ³ (inhalable aerosol)
United Kingdom	4 mg/m ³ (respirable aerosol) 10 mg/m ³ (inhalable aerosol)

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:

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Breathing equipment: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator Type A filter material, European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode.

Protection of hands: Protective gloves of nitrile rubber. Change protective gloves regularly. Nitrile, CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

Eye protection: Face shield or protective goggles if there is a risk of splashing.

Skin protection: Protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

* Refer to white spirit

9.1 Information on basic physical and chemical properties:

Appearance	Paste , gray
Odour	* Pungent petroleum
Odour threshold	* No information
pH	NA
Melting point/freezing point (°C)	No information
Initial boiling point/boiling range (°C)	* 150-200
Flash point (°C)	* > 39
Evaporation rate	* No information
Flammability (solid, gas)	Flammable solid
Upper/lower flammability/explosive limits	* 0,6-7 vol. %
Vapour pressure (kPa)	* 0,27 (20 °C)
Vapour density (air=1)	* > 1
Density (g/cm ³)	0,8-1,2 (Density = volume weight)
Solubility in water (weight-%)	* Slightly soluble
Partition coefficient, log Pow	* > 3
Auto-ignition temperature (°C)	* > 200
Decomposition temperature (°C)	* No information
Viscosity	NA
Explosive properties	No
Oxidising properties	No

9.2 Other information: No additional information.

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

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.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

White spirit: Very low toxicity when swallowed LD50 > 15000 mg/kg, rat, in contact with skin LD50 > 3400 mg/kg, rabbit, and when inhaled LC50 > 13,1 mg/l, rat 4h.

Xylene: LD50 (oral rat) 3523-4000 mg/kg. LC50 (rat) 6350-6700 ppm. LD50 (dermal rabbit) 12126 mg/kg body weight.

Aluminium powder: Oral LD50 (rat) > 2000 mg/kg bw. Inhalation LC50 (rat) > 888 mg/m³. Inhalation NOAEC (rat) = 10 mg/m³.

Inhalation: Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headache and dizziness.

Skin: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eyes: Causes smart.

Ingestion: Can cause indisposition, vomiting and diarrhea.

White spirit causes damage to organs through prolonged or repeated exposure.

All symptoms above refer to white spirit, which is a part of the aluminium paste.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

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Aluminium powder is not classified as dangerous for the environment.

White spirit is toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Acute toxicity: Aquatic - 96 hour(s), fish LL50 10-30 mg/l (OECD 203)

Acute toxicity: Aquatic - 48 hour(s), daphnia magna EL50 10-22 mg/l (OECD 202)

The product aluminium paste in white spirit is classified as dangerous for the environment.

12.2 Persistence and degradability:

White spirit is expected to be readily biodegradable and degrade rapidly in air.

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 affects:

No additional information available.

SECTION 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: 170409 – Metal waste contaminated with dangerous substances.

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	1325	1325	1325
14.3 Transport hazard class(es)	4.1	4.1	4.1
14.4 Packing group	II	II	II
EmS No			F-A, S-G
Tunnel category	E		

14.2 UN proper shipping name:

Flammable solid, organic, n.o.s. (contains white spirit and aluminium powder)

14.5 Environmental hazards: Yes

14.6 Special precautions for user:

Handling and storage according to section 7.

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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 sheet for white spirit.

15.2 Chemical safety assessment: No

SECTION 16. OTHER INFORMATION

H226 Flammable liquid and vapour.

H228 Flammable solid.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure. Central Nervous system.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Flam. Liq. 3 = Flammable liquid, category 3

Flam. Sol. 1 = Flammable solid, category 1

STOT SE 3 = Specific organ toxicity – single exposure, category 3

STOT RE 1 = Specific organ toxicity – repeated exposure, category 1

Asp. Tox. 1 = Aspiration hazard, category 1

Aquatic Chronic 2 = Hazardous to the aquatic environment, category 2

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 following points 6, 7 and 11. Take the place of 2017-03-07.