

White metal BK Special

Replaces date: 9/23/2021 Revision date: 12/1/2022

Version: 3.1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: White metal BK Special

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

Recommended uses: Bearing metal.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Boliden Bergsøe A/S Address: Hvissingevej 116

Zip code: 2600 City: Glostrup Country: **DENMARK**

E-mail: metal.glostrup@boliden.com

Phone: +45 43268300

1.4. Emergency Telephone Number

+45 43 26 83 00 (company)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and

labeling rules for substance and mixtures.

Most serious harmful effects: Prolonged exposure to welding smoke and particles constitutes a risk of developing

asthmatic diseases, various respiratory disorders and cancer of the respiratory system. Persons with a known allergy to Nickel may exhibit an allergic response to the product.

2.2. Label elements

Supplemental information

EUH208 Contains Nickel. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3. Other hazards

No assessment required, as the product contains inorganic matter only.

Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substanc	ce CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
Tin	7440-31-5 231-141-8 01-2119486474-28-0024	89 - 91 %		



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Antimony	7440-36-0 231-146-5 01-2119475609-24-0026	6 - 7 %	
Copper	7440-50-8 231-159-6 01-2119480154-42-0184	2.5 - 3.5 %	
Nickel	7440-02-0 231-111-4 01-2119438727-29-xxxx	0.1 - 0.3 %	Skin Sens. 1;H317 Carc. 2;H351 STOT RE 1;H372

Please see section 16 for the full text of H- / EUH-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical

advice in case of persistent discomfort.

Skin contact: Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Seek

medical advice if symptoms persist.

General: When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

Prolonged exposure to welding smoke and particles constitutes a risk of developing asthmatic diseases, various respiratory disorders and cancer of the respiratory system. Harmful if vapours from molten metal are inhaled or if the skin comes in contact with molten metal. The product contains small amounts of Nickel. Persons with a known allergy may exhibit an allergic response to the product.

4.3. Indication of any immediate medical attention and special treatment needed

No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool

non-ignited stock.

Unsuitable extinguishing

media:

Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes - seek fresh air.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures



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6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear safety goggles if there is a risk of dust contact with eyes. In case of insufficient

ventilation, wear respiratory protective equipment.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work processes where generation of dust may occur must be performed under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Store in a dry area. Do not store with the following: Acids/ Alkalis/ Strong oxidisers/ Halogens.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene

measurements.

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently

amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2022/431/EU. Resolution 2019/2182(INL) (Protecting workers from asbestos)

as subsequently amended. Last amended by resolution 2022/C 184/03.

PNEC

Antimony, cas-no 7440-3	6-0			
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,113 μg/l			
PNEC aqua (marine water)	0,0113 µg/l			
PNEC sediment (freshwater)	7,8 mg/kg dw			
PNEC sediment (marine water)	1,56 mg/kg dw			



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PNEC soil	37 mg/kg dw			
PNEC STP (wastewater-treatment facilities)	2,55 g/l			
Copper, cas-no 7440-50-	8			
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	7,8 µg/l			
PNEC aqua (marine water)	5,2 μg/l			
PNEC sediment (freshwater)	87 mg/kg dw			
PNEC sediment	288 mg/kg dw			
PNEC sediment (marine water)	676 mg/kg dw			
PNEC soil	65,5 mg/kg dw			
PNEC STP (wastewater-treatment facilities)	230 g/l			

DNEL - workers

Antimony, cas-no 74	40-36-0				
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long- term exposure - systemic effects)	281 mg/kg bw/day				
Inhalation DNEL (long-term exposure - local effects)	0,5 mg/m³				
Copper, cas-no 7440)-50-8				
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long- term exposure - systemic effects)	0,041 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	0,041 mg/kg bw/day				
Oral DNEL (long- term exposure - systemic effects)	0,041 mg/kg bw/day				
Dermal DMEL (acute/short-term exposure - systemic effects)	0,082 mg/kg bw/day				
Inhalation DNEL (acute/short-term exposure - systemic effects)	0,082 mg/kg bw/day				
Oral DMEL (acute/short-term exposure - systemic effects)	0,082 mg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls:

Wear the personal protective equipment specified below.



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eye/face protection:

Personal protective equipment, Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN

hand protection:

Personal protective equipment, Wear protective gloves which protect against contact and splashing from molten metal.

Gloves must conform to EN 12477.

The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek

advice from the glove supplier.

respiratory protection:

Personal protective equipment, In case of heating/use of the product in an area with inadequate ventilation, wear respiratory protection with filter B/P3. Respiratory protection must conform to one of the

following standards: EN 136/140/145.

Environmental exposure

controls:

Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Solid substance
Colour	Yellow / Silver
Odour	No data
Solubility	Insoluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	227 - 323 °C	
Freezing point	No data	
Initial boiling point and boiling range	> 600 °C	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	No data	
Auto-ignition temperature	> 400 °C	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octonol/water	No data	
Vapour pressure	No data	
Density	No data	
Relative density	7.3 g/cm³	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity



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Reacts with the following: Acids/ Alkalis/ Strong oxidisers/ Halogens.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Acids/ Alkalis/ Strong oxidisers/ Halogens.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Tin, cas-no 7440-31-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000 mg/kg		OECD 423	
Antimony, cas-	no 7440-36-0					

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 20000 mg/kg			

Copper, cas-no 7440-50-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 300 mg/kg bw			

Nickel, cas-no 7440-02-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 9000 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Tin, cas-no 7440-31-5

D-4 DFO DFOD 400	
Rat LD50 > 2000 mg/kg OECD 402	

Antimony, cas-no 7440-36-0

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 8300 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Tin, cas-no 7440-31-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5 mg/l		OECD 403	

Antimony, cas-no 7440-36-0



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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50		> 5.5 mg/m³			

The product does not have to be classified. Test data are not available. The product does not release hazardous vapours in metallic form. Metallic oxides which are hazardous to inhale are formed during soldering/welding.

Skin corrosion/irritation

Tin, cas-no 7440-31-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating		

May cause slight irritation. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Serious eye damage/eye irritation

Tin, cas-no 7440-31-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating		

Temporary irritation. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Respiratory sensitisation or

skin sensitisation:

The product contains small amounts of Nickel. Persons with a known allergy may exhibit an allergic response to the product. The product does not have to be classified. Test data are

not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: The product does not have to be classified. Test data are not available. Inhalation of smoke

from the soldering / welding process may cause irritation to the upper airways. May cause a burning sensation in the nose, mouth and throat, as well as headaches, coughing and

discomfort.

Repeated STOT exposure: The product does not have to be classified. Test data are not available. Prolonged

exposure to welding smoke and particles constitutes a risk of developing asthmatic diseases, various respiratory disorders and cancer of the respiratory system. Prolonged

inhalation may cause water in the lungs.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting

properties:

None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Tin, cas-no 7440-31-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	> 12.4 µg/l		OECD 203	



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Crustacea	Daphnia magna	7dEC50	> 3200 µg/l		
Algae	Pseudokirchne riella subcapitata	72hEC50	> 19.2 µg/l	OECD 201	

Antimony, cas-no 7440-36-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	14.4 mg/l			
Algae	Pseudokirchne riella subcapitata		72hErC50	> 36.6 mg/l			
Fish	Pimephales promelas		28dNOEC	1.13 - 2.31 mg/l			
Crustacea	Daphnia magna		21dNOEC	1.74 - 3.13 mg/l			
Algae	Pseudokirchne riella subcapitata		72hNOEC	2.11 - 4.00 mg/l			
Crustacea	Chlorohydra viridissima		96hEC50	1.77 mg/l			
Fish	Pagrus major		96hLC50	6.9 mg/l			
Algea or other acquatic plants	Lemna minor		4dEC50	> 25.5 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Tin, cas-no 7440-31-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kd:	2.1 - 4.3			

Antimonv. cas-no 7440-36-0

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source	
			Log Kp	2.07				

No bioaccumulation expected.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment required, as the product contains inorganic matter only.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations



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hazards:

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13.1. Waste treatment methods

Avoid discharge to drain or surface water.

Contact the local authorities.

Empty, cleansed packaging should be disposed of for recycling.

Category of waste: EWC code: Depends on line of business and use, for instance 17 04 07 mixed metals

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable. 14.4. Packing group: Not applicable. 14.2. UN proper shipping Not applicable. 14.5. Environmental Not applicable.

name:

14.3. Transport hazard

Not applicable.

class(es):

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not included.

SECTION 15: Regulatory information

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

Special Provisions: None

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119438727-29-xxxx	Nickel
01-2119475609-24-0026	Antimony
01-2119480154-42-0184	Copper
01-2119486474-28-0024	Tin

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
3.1.0	12/1/2022	Bureau Veritas HSE / MPE	1, 3, 16

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and Very Bioaccumulative

STOT: Specific Target Organ Toxicity **DNEL: Derived No Effect Level**

PNEC: Predicted No Effect Concentration

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on

our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as

subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

List of relevant H-statements



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H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

List of relevant EUH-statements

EUH208 Contains Nickel. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

SDS is prepared by

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