

Lead free solder tin alloys HQ005, HQ300, HQ305, HQ350, HQ350P, HQ387, HQ400, HQ405, Starli LF2/LF3/SB3, Sn99,5Cu0,4, Sn75Zn25, 91% Hafnia Zn

Replaces date: 9/17/2021

Revision date: 3/11/2022 Version: 3.2.0

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

1.1. Product identifier

Trade name:Lead free solder tin alloys HQ005, HQ300, HQ305, HQ350, HQ350P, HQ387, HQ400,
HQ405, Starli LF2/LF3/SB3, Sn99,5Cu0,4, Sn75Zn25, 91% Hafnia Zn

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

Recommended uses: Soldering.

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:	Harmful if vapours from molten metal are inhaled or if the skin comes in contact with molten metal.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

PBT/vPvB: No assessment required, as the product contains inorganic matter only.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
	7440-31-5 231-141-8 01-2119486474-28-0024	> 70%		
Antimony	7440-36-0 231-146-5 01-2119475609-24-0026	0 - 3.5%		



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Copper	7440-50-8 231-159-6 01-2119480154-42-0184	0 - 3.5%		
Silver, metallic	7440-22-4 231-131-3 01-2119555669-21-0074	0 - 4%	12	
Zinc	7440-66-6 231-175-3 01-2119467174-37-0023	0 - 26%		

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

12 = The substance is included in the EU list of limit values for occupational exposure

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.

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

6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel: Wear safety goggles if there is a risk of dust contact with eyes. Provide good ventilation.

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 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/ Chlorine-containing compounds/ Chlorine.

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 2019/983/EU.

PNEC

Zinc, cas-no 7440-66-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC sediment (freshwater)	117,8 mg/kg dw			
PNEC sediment (marine water)	56,5 mg/kg dw			
PNEC soil	35,6 mg/kg dw			
	52 µg/l			
PNEC aqua (freshwater)	20,6 µg/l			



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PNEC aqua (marine water)	6,1 µg/l			
Silver, metallic, cas-no 74	440-22-4			
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,04 µg/l			
PNEC aqua (marine water)	0,86 µg/l			
PNEC sediment (freshwater)	438 mg/kg			
PNEC sediment (marine water)	438 mg/kg			
PNEC soil	0,794 mg/kg			
PNEC STP (wastewater- treatment facilities)	0,025 mg/l			
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			
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

Zinc, cas-no 7440-66-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral DNEL (long- term exposure - systemic effects)	50 mg/kg bw/day				
Dermal DNEL (long- term exposure - systemic effects)	5000 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	5 mg/kg bw/day				



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Silver, metallic, cas-r	וס 7440-22-4				
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	0,1 mg/kg bw/day				
Oral DNEL (long- term exposure - systemic effects)	0,12 mg/kg bw/day				
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				

DNEL - general population

Zinc, cas-no 7440-66	3-6				
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral DNEL (long- term exposure - systemic effects)	50 mg/kg bw/day				
Dermal DNEL (long- term exposure - systemic effects)	5000 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	2,5 mg/kg bw/day				



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Silver, metallic, cas-r	וס 7440-22-4				
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	0,04 mg/kg bw/day				
Oral DNEL (long- term exposure - systemic effects)	0,12 mg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls:	Wear the personal protective equipment specified below.
Personal protective equipment, eye/face protection:	Eye protection must conform to EN 166.
Personal protective equipment, hand protection:	Wear protective gloves which protect against contact and splashing from molten metal. Gloves must conform to EN 12477.
Personal protective equipment, respiratory protection:	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	Grey / White	
Odour	No data	
Solubility	Insoluble	
Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	217 - 310 °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	7.2 - 7.5 g/cm ³	



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Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	
9.2. Other information	L.	

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Alkalis/ Acids/ Strong oxidisers/ Chlorine-containing compounds/ Chlorine

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/ Oxidisers/ Chlorine-containing compounds/ Chlorine

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		> 2000mg/kg		OECD 423	

Silver, metallic, cas-no 7440-22-4

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg			

Antimony, cas-no 7440-36-0

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

Copper, cas-no 7440-50-8

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

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

	Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source	
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Rat	LD50		> 2000mg/kg		OECD 402						
Antimony, cas	Antimony, cas-no 7440-36-0										
Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source					
Rabbit	LD50		> 8300mg/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		> 5mg/l		OECD 403					
Antimony, cas-no 7440-36-0										
Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source				
Rat	LC50		> 5.5mg/m ³							

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

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

Serious eye damage/eye irritation

Tin, cas-no 7440-31-5

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

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

Respiratory sensitisation or skin sensitisation:	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. Based on existing data, the classification criteria are deemed not to have been met. Prolonged exposure to welding smoke and particles constitutes a risk of developing asthmatic diseases, various respiratory disorders and cancer of the respiratory system.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
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11.2. Information on other hazards



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Endocrine disrupting N properties:

None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Tin, cas-no 7	7440-31-5						
Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	> 12.4µg/l		OECD 203	
Crustacea	Daphnia magna		7dEC50	> 3200µg/l			
Algae	Pseudokirchne riella subcapitata		72hEC50	> 19.2µg/l		OECD 201	
Silver, metal	lic, cas-no 744	0-22-4					
Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	1.2mg/l			
Fish	Oncorhynchus mykiss	196 d	EC10	0.17mg/l			
Fish	Pimephales promelas	32 d	EC10	0.44mg/l			
Crustacea	Daphnia magna		48hLC50	0.22mg/l			
Fish	Pimephales promelas	32 d	NOEC	0.351mg/l	Permanent dammage		
Crustacea	Daphnia magna	21 d	EC10	2.14mg/l	Permanent dammage		
Algae	Chlamydomon as reinhardtii	24 h	EC10	0.54mg/l			
Algae	Pseudokirchne riella subcapitata	24 h	EC10	0.41mg/l			
Crustacea	Ceriodaphnia dubia		48hLC50	0.76mg/l			
Crustacea	Ceriodaphnia dubia	7 d	EC10	2.48mg/l	Reproduction		
Fish	Salmo trutta	217 d	EC10	0.19mg/l			_
Fish	Oncorhynchus mykiss		96hLC50	1.48mg/l			
Fish	Pimephales promelas	32 d	EC10	0.39mg/l	Permanent dammage		
Crustacea	Ceriodaphnia reticulata	7 d	NOEC	1mg/l	Reproduction		
Fish	Salmo gairdneri		96hLC50	6.5g/l		Soft water	
Fish	Salmo gairdneri		96hLC50	13mg/l		Hard water	
Fish	Salmo trutta	217 d	EC10	1.23mg/l			

Antimony, cas-no 7440-36-0

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

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

Antimony, cas-no 7440-36-0

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

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

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Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local wasteremoval scheme.

Category of waste:EWC code: Depends on line of business and use, for instance 17 04 07 mixed metals
Absorbent/cloth contaminated with the product: EWC code: 15 02 03 Absorbents, filter
materials, wiping cloths and protective clothing other than those mentioned in 15 02 02.

SECTION 14: Transport information

14.1. UN number or ID number:Not applicable.14.2. UN proper shipping
name:Not applicable.14.3. Transport hazard
class(es):Not applicable.

14.4. Packing group: 14.5. Environmental hazards: Not applicable. Not applicable.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

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
01-2119467174-37-0023	Zinc
01-2119475609-24-0026	Antimony
01-2119480154-42-0184	Copper
01-2119486474-28-0024	Tin
01-2119555669-21-0074	Silver, metallic

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes			
3.2.0	3/11/2022	Bureau Veritas HSE / MPE	1, 11, 12, 16			
Abbreviations:	PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative STOT: Specific Target Organ Toxicity PNEC: Predicted No Effect Concentration DNEL: Derived No Effect Level					
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	s safety data sheet should be a p	prerequisite condition.			



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Calculation	based on	the hazards	of the known	components.
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SDS is prepared by

Company:

Address:

Zip code:

Country:

E-mail:

Phone:

City:

Classification method:

Bureau Veritas HSE Denmark A/S Oldenborggade 25-31 7000 Fredericia DENMARK infohse@dk.bureauveritas.com +45 77 31 10 00 Homepage: www.bureauveritas.dk

ΕU

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