

SAFETY DATA SHEET

in accordance with Regulation (EC) no. 1907/2006 (REACH)

BEARING METAL POWDER



Date of Issue: 23-08-2022

Date of Revision:

Powder Number: LPP.B-83-100-40

Version: 2.0

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

1.1. Product identification

Product type:	Mixture
Product code:	LPP.B-83-100-40

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

1.2.1. Relevant identified uses

Specific industrial/professional use: Industrial For professional use only

1.2.2. Uses advised against

No additional information available Powder

1.3. Details regarding the supplier of the safety data sheet

Titomic Limited
info@titomic.com
www.titomic.com

1.4. Emergency telephone number

Country	Organisation / Company	Address	Emergency tel. number
THE NETHERLANDS	National Poisons Information Center (NVIC) University Medical Centre (UMC) Utrecht, The National Poisons Information Centre (NVIC) provides information for doctors, veterinary surgeons, pharmacists and other medical professionals about the potential health effects and treatment options in cases of poisoning. The NVIC can be reached 24 hours a day, both by telephone and Internet.	P.O. Box 85500 3508 GA Utrecht	+31 30 274 88 88

SECTION 2: Hazard Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008 [CLP]

Aquatic Acute 1 H400
Aquatic Chronic 1 H410
For total text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

N; R50/53
For total text of R-phrases: see section 16

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Harmful physical-chemical, health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) no. 1272/2008 [CLP]

Hazard pictograms (CLP):	 GHS09
Signal word (CLP):	Warning
Hazard indication (CLP):	H410 - Highly poisonous to aquatic organisms, with long-term consequences
Safety recommendations (CLP):	P273 - Avoid discharge into the environment P391 - Clean up leaked or spilled substances P501 - Dispose of content/packaging at a recognised waste disposal centre

2.3. Other hazards

No additional information available

SECTION 3: Composition of and Information About Ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identification	%	Classification as laid down in Directive 67/548/EEC
Tin powder	(CAS-No.) 7440-31-5 (EC-No.) 231-141-8 (REACH-No.) 01-2119486474-28	>= 75	Not classified
Antimony, Powder	(CAS-No.) 7440-36-0 (EC-No.) 231-146-5	10-25	Xn; R20/22 R52/53
Copper powder	(CAS-No.) 7440-50-8 (EC-No.) 231-159-6 (REACH-No.) 01-2119480154-42	2,5-10	N; R50/53

Name	Product identification	%	Classification according to Regulation (EC) no. 1272/2008 [CLP]
Tin powder	(CAS-No.) 7440-31-5 (EC-No.) 231-141-8 (REACH-No.) 01-2119486474-28	>= 75	Not classified
Antimony, Powder	(CAS-No.) 7440-36-0 (EC-No.) 231-146-5	10-25	Acute tox. 4 (inhalation), H332 Acute tox. 4 (ingestion), H302 Aquatic Chronic 3, H412
Copper powder	(CAS-No.) 7440-50-8 (EC-No.) 231-159-6 (REACH-No.) 01-2119480154-42	2,5-10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

For total content of R and H phrases: see section 16

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SECTION 4: First aid Measures

4.1. Description of first aid measures

General first aid:	Never give anything by mouth to an unconscious person. If a person feels unwell, consult a physician (show the relevant label if possible).
First aid following substance inhalation:	Allow victim to breathe fresh air. Allow victim to rest. If respiratory arrest, perform artificial respiration.
First aid following contact with skin:	Remove soiled clothing and wash or shower skin with plenty of water (for 15 minutes). Consult a physician if necessary.
First aid following contact with eyes:	Rinse immediately with plenty of water. Seek medical assistance if pain or redness persists. Separate eyelids with fingers and rinse eyes with plenty of water
First aid following ingestion:	Rinse mouth. DO NOT induce vomiting. If the patient is fully conscious, drink plenty of water. Never give anything to drink to an unconscious person. Get medical help if symptoms occur.

4.2. Main acute and delayed symptoms and effects

Symptoms/injuries:	Not considered a serious hazard if used under normal circumstances.
Symptoms/injuries following inhalation:	Irritation of the airways. Shortness of breath. Coughing. Metal fume fever.
Symptoms/injuries following contact with skin:	Skin irritation. Itching. Redness, pain.
Symptoms/injuries following contact with eyes:	Irritation, Redness
Symptoms/injuries following ingestion:	Nausea. Diarrhoea. Abdominal pain. Vomiting. Metallic taste.
Chronic symptoms:	Major damage to the sensitive tissue and risk of perforation; harmful if swallowed. Can result in problems with the kidneys, liver and central nervous system.

4.3. Reporting the necessary immediate medical care and special treatment

Symptomatic treatment

Section 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media:	Dry chemicals; Water; Sand; Soda; lime
Unsuitable extinguishing media:	Carbon dioxide

5.2. Special hazards arising from the substance or mixture

Fire hazard	Not flammable. No immediate explosion hazard.
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5.3. Advise for firefighters

Extinguishing instructions:	Cool the exposed vessels by spraying with water or water mist. Exercise extreme caution when fighting a chemical fire. Avoid discharging fire extinguishing water into the environment.
Protection during firefighting:	Do not enter fire zone without suitable safety equipment/clothing, including protective breathing apparatus.

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SECTION 6: Measures to be Taken in the Event of Accidental Release of the Substance or Mixture

6.1. Personal prevention measures, protective equipment and emergency procedures

General measures:	Can form a flammable vapour-air mixture. Make sure there is adequate ventilation.
6.1.1. For non-emergency personnel	
Emergency procedures:	Evacuate personnel to a safe place.
6.1.2. For emergency personnel	
Protective equipment:	Provide cleaning personnel with suitable protection.
Emergency procedures:	Ventilate the area.

6.2. Environmental precautions

Do not discharge into sewage or public waters. If pollution of lakes, rivers or sewage occurs, inform the responsible authorities in accordance with local regulations. Avoid discharge into the environment.

6.3. Methods and materials for containment and cleaning

Cleaning methods:	Sweep or scrape from the ground into suitable containers. Keep dust formation to a minimum. Store separately from other materials.
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6.4. Reference to other sections

See section 8 for use of personal protection equipment. See section 13 for waste disposal after cleaning.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling of the substance or mixture

Precautions for safe handling of the substance or mixture:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and leaving work. Do not inhale substance. Avoid contact with eyes, skin or clothing. Limit dust formation. Good ventilation of the workplace is required.
Hygiene measures:	Wash soiled clothing before reusing.

7.2. Safe storage conditions, including incompatible products

Storage conditions:	Store in a cool, dry, well-ventilated area. Keep containers closed when not in use.
Incompatible substances:	Oxidizing substances
Incompatible substances:	Remove all sources of ignition.

7.3. Specific end use(s)

industrial.

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SECTION 8: Measures to Control Exposure/Personal Protection

8.1. Control parameters

Bearing metal powder		
The Netherlands	TWA 2 mg/m ³	
Copper powder (7440-50-8)		
THE NETHERLANDS	MAC TGG 8H (mg/m ³)	0,1 mg/m ³
Tin powder (7440-31-5)		
CEE	IOELV TWA (mg/m ³)	2 mg/m ³
THE NETHERLANDS	MAC TGG 8H (mg/m ³)	2 mg/m ³
Antimony, Powder (7440-36-0)		
THE NETHERLANDS	MAC TGG 8H (MAC time weighted average (mg/m ³))	0,5 mg/m ³

8.2. Measures to control exposure

Suitable technical measures:	Emergency eye baths and safety showers should be installed in the vicinity of all exposure hazard areas. Do not exceed exposure limits (VLE/MAC).
Personal protective equipment:	Avoid unnecessary exposure. In case of dust: dust mask; gloves; safety goggles 
Hand protection:	The manufacturer can provide the exact penetration time; bear this in mind at all times. Standard EN 374 - Gloves for protection against chemicals. As a result of failed tests, no recommendation for glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material according to penetration times, rates of diffusion and the degradation. The choice of suitable gloves depends not only on the material, but also on other quality characteristics, and varies from one manufacturer to another.
Eye protection:	Safety goggles. Use protective eyewear that meets EN 166 requirements and which is designed to protect against dust particles.
Protection for the skin and body:	Wear suitable protective clothing.
Respiratory protection:	Respiratory protection is recommended if exposure carries a risk of inhalation. No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
Other information:	Do not eat, drink or smoke during use.

SECTION 9: Physical and Chemical Properties.

9.1. Information about basic physical and chemical properties

Physical state:	Solid
Appearance:	Powder
Colour:	Silver grey.
Odour:	Odourless.
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butyl acetate=1):	No data available

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9.1. Information about basic physical and chemical properties

Melting point:	No data available
Coagulation/freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Thermolysis temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Solubility:	Product soluble in water.
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosion points	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at room temperature and with normal use.

10.3. Potentially hazardous reactions

Hazardous polymerisation: None.

10.4. Conditions to avoid

Extremely high or low temperatures. Protect from direct sunlight. High humidity; heat

10.5. Chemically incompatible materials

Halogen; Oxidant; strong acids; strong bases; alkaline metals

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity:	Not classified
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11.1. Information on toxicological effects

Irritation:	Not classified
Corrosiveness:	Not classified
Sensitisation:	Not classified
Toxicity on repeated administration:	Not classified
Carcinogenicity:	Not classified
Germ cell mutagenicity:	Not classified
Reproduction toxicity:	Not classified
Potential hazardous effects on human health and potential symptoms:	Classification criteria are not met based on available data

SECTION 12: Ecological Information

12.1. Toxicity

Tin powder (7440-31-5)

LC50:	0,42 mg/l (672 h; Salmo gairdneri (Oncorhynchus mykiss); Metaalio)
EC50 Daphnia 1:	1,5 mg/l (504 h; Daphnia magna)

12.2. Persistence and degradability

Bearing metal powder

Persistence and degradability:	Can have long-term adverse effects on the environment.
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Tin powder (7440-31-5)

Persistence and degradability:	Organic degradability: not applicable. Adsorbs into soil.
Biochemical oxygen uptake (BZV):	Not applicable
Biochemical oxygen uptake (BZV):	Not applicable
ThOD:	Not applicable
BZV (% of ThOD):	Not applicable

Antimony, Powder (7440-36-0)

Persistence and degradability:	Biodegradability not applicable Biodegradability in soil: not applicable. Adsorbs into soil.
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12.3. Bioaccumulation

Bearing metal powder

Bio accumulative:	Not classified
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Tin powder (7440-31-5)

BCF 1:	< 0,00036 (Pisces, dry weight)
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Antimony, Powder (7440-36-0)

Log Pow:	0,73 (Estimate)
Bioaccumulation:	Low bioaccumulation potential (Log Kow <4).

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and zPzB assessments

No additional information available

12.6. Other adverse effects

Avoid discharge into the environment

SECTION 13: Disposal Instructions

13.1. Waste treatment methods

Recommendations for waste disposal: Dispose of safely and in accordance with local/national regulations.

Ecology - waste products: Avoid discharge into the environment.

SECTION 14: Transport Information

In accordance with ADR / RID / IMDG / IATA regulations.

14.1. UN number

Not classified as hazardous according to transport legislation

14.2. Correct shipping name in accordance with the UN Model Regulations

Not applicable

14.3. Transport hazards class

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information: No additional information available

14.6. Special precautions for the user

14.6.1. Land transport

No additional information available

14.6.2. Sea transport

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterways transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulations

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

15.1.1. EU regulations

No limitations in accordance with Annex XVII of REACH
Do not contain REACH substance candidate list

15.1.2. National regulations

No additional information available

15.2. Chemical safety evaluation

No chemical safety evaluation has been conducted.

SECTION 16: Other Information

Sources of data:	EC Regulation no. 1272/2008 OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 16 December 2008 re. the classification, labelling and packing of substances and mixtures as amended and repealed in Regulation 67/548/EEC and 1999/45/EC and as amended in EC Regulation no. 1907/2006.
Other information:	REACH Declaration: All information is based on current knowledge. Consistency of the information listed in this Safety Data Sheet with the information in the Chemical Safety Report is considered to the extent available at the time of compilation (see version number and date of revision). EXCLUSION OF LIABILITY The information provided in this sheet has been gathered from sources which, to the best of our knowledge, are reliable. However, the information was provided without any express or implied regarding its correctness. Conditions regarding the handling, storage, use or disposal of the product fall beyond the scope of our control and also possibly beyond the scope of our knowledge. For this and other reasons, we shall not assume any responsibility for, and expressly disclaim liability for, any loss, damage or expense whatsoever resulting from the handling, storage, use or disposal of the product.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purpose of the health, safety and environmental aspects of its use. It should therefore not be regarded as a guarantee for any specific property of the product.