

BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 1 / 15 Replaced revision:1 (Dated 21/09/2021)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: **BO-xxx Alloys**

Product name BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

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

Intended use Soft-soldering alloy

| Identified Uses | Industrial | Professional | Consumer |
|------------------------------------|--------------|--------------|----------|
| Laboratory chemists, Production of | • | | |
| chemicals | ✓ | - | |
| Brazing alloys | \checkmark | - | - |

1.3. Details of the supplier of the safety data sheet

Name LINBRAZE S.R.L.

Full address C/da Torre Chimera SP180

District and Country 93019 Sommatino (CL)

+39 0922 871694 Tel. Fax +39 0922 709064

e-mail address of the competent

responsible for the Safety Data Sheet sds@linbraze.com

LINBRAZE S.r.I. Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to - Bulgaria

National Toxicology Information Center

Hospital for Active Medical Treatment and Emergency Medicine

'N.I.Pirigov', Bul. Totleben 21, 1606 Sofia Center, Sofia, Bulgaria

+359 2 9154 409

- Czech Republic

Ministry of Health of the Czech Republic

Chemical Substances and Biocidal Products Unit Palackého nám. 4, 128 01 Praha 2, Czech Republic

+420267082257

- Denmark

Danish Environmental Protection Agency Haraldsgade 53, 2100 København Ø, Denmark

+45 72 54 40 00



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 2 / 15 Replaced revision:1 (Dated 21/09/2021)

- Hungary **National Public Health Center** Albert Flórián Street 2-6, H-1097 Budapest, Hungary +36 (1) 476 1135

-Netherlands

National Poisons Information Center / University Medical Center

PO Box 85500, 3508 GA Utrecht, The Netherlands +31 88 75 585 61

- Poland

Bureau for Chemical Substances 30/34 Dowborczykow Street, 90-019 Lodz, Poland +48 42 2538 400

- National Institute for Public Health, Ministry of Health Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 Bucuresti, 050463, Romania +40 21 318 3606
- Slovakia **National Toxicological Information Centre** Limbova 5, 833 05 Bratislava, Slovakia +421 2 5465 2307
- Sweden **Swedish Poisons Information Centre** Giftinformationscentralen 171 76 Stockholm, Sweden +46 104 566 750

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| Reproductive toxicity, category 1A | H360FD | May damage fertility. May damage the unborn child. |
|-------------------------------------------------------|--------|-------------------------------------------------------|
| Reproductive toxicity, effects on or via lactation | H362 | May cause harm to breast-fed children. |
| Specific target organ toxicity - repeated exposure, | H372 | Causes damage to organs through prolonged or |
| category 1 | | repeated exposure. |
| Hazardous to the aquatic environment, acute toxicity, | H400 | Very toxic to aquatic life. |
| category 1 | | |
| Hazardous to the aquatic environment, chronic | H410 | Very toxic to aquatic life with long lasting effects. |
| toxicity, category 1 | | |
| | | |



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 3 / 15 Replaced revision:1 (Dated 21/09/2021)

SECTION 2. Hazards identification ... / >>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Danger

Hazard statements:

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

EUH201 Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.

Restricted to professional users.

Precautionary statements:

P201 Obtain special instructions before use.

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

P308+P313 IF exposed or concerned: Get medical advice / attention.

P391 Collect spillage.
P232 Protect from moisture.

P412 Do not expose to temperatures exceeding 50°C / 122°F.

P264 Wash [...] thoroughly after handling.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P202 Do not handle until all safety precautions have been read and understood.

P233 Keep container tightly closed.

P263 Avoid contact during pregnancy and while nursing.
P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P405 Store locked up.

P264 Wash . . . thoroughly after handling.

Contains: LEAD POWDER

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

TIN

INDEX $50 \le x < 54$

EC 231-141-8 CAS 7440-31-5

REACH Reg. 01-2119486474-28-0049

LEAD POWDER



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 4 / 15

Replaced revision:1 (Dated 21/09/2021)

SECTION 3. Composition/information on ingredients

100% - metallic element

INDEX $50 \le x < 54$ Repr. 1A H360D, Repr. 1A H360F, Lact. H362, STOT RE 1 H372, Aquatic 082-013-00-1

Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10

Repr. 1A H360D: ≥ 0,03%, STOT RE 1 H372: ≥ 0,5%

FC 231-100-4 CAS 7439-92-1

REACH Reg. 01-2119513221-59-0012

SECTION 4. First aid measures

4.1. Description of first aid measures

The full wording of hazard (H) phrases is given in section 16 of the sheet.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 5 / 15

Replaced revision:1 (Dated 21/09/2021)

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE Česká Republika Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády

č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve

znění pozdějších předpisů

DNK Danmark Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af

13/12/2019



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 6 / 15

Replaced revision:1 (Dated 21/09/2021)

SECTION 8. Exposure controls/personal protection .../>>

| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
|-----|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| POL | Polska | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy |
| ROU | România | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 |
| TUR | Türkiye | Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 |
| EU | OEL EU | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2021 |

| | | | | LEAD POWDER | | | | |
|-----------------------|---------|--------|------|-------------|------------------------|-----------|--|--|
| Threshold Limit Value | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15min | Remarks / Observations | | | |
| | | mg/m3 | ppm | mg/m3 ppm | | | | |
| TLV | CZE | 0,05 | | 0,2 | | | | |
| TLV | DNK | 0,05 | | | | E, Som Pb | | |
| VLA | ESP | | 0,15 | | | | | |
| VLEP | FRA | 0,1 | | | | En Pb | | |
| VLEP | ITA | 0,15 | | | | Pb | | |
| NDS/NDSCI | n POL | 0,05 | | | INHAL | | | |
| TLV | ROU | 0,15 | | | | în Pb | | |
| ESD | TUR | 0,15 | | | | | | |
| OEL | EU | 0,15 | | | | | | |
| TLV-ACGIH | | 0,05 | | | | | | |

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

LEAD POWDER

Biological monitoring must include measuring the blood-lead level (PbB) using absorption spectrometry or a method giving equivalent results. The binding biological limit value is: 70 μ g Pb/100 ml blood.

Medical surveillance is carried out if exposure to a concentration of lead in air is greater than 0,075 mg/m3, calculated as a time-weighted average over 40 hours per week, or a blood-lead level greater than 40 μg Pb/100 ml blood is measured in individual workers.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station.



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 7 / 15

Replaced revision:1 (Dated 21/09/2021)

SECTION 8. Exposure controls/personal protection .../>>

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times). HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

FYF PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Appearance powder Colour dark grey Odour not available Melting point / freezing point 250 °C °C. Initial boiling point 800 Flammability not available Lower explosive limit not available Upper explosive limit not available not applicable Flash point Auto-ignition temperature not available Decomposition temperature not available not available Kinematic viscosity not available Solubility insoluble Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density kg/dm3 Relative vapour density not available

Particle characteristics

Shape

Shape spherical

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

Information

LINBRAZE brazing powders industry

LINBRAZE S.R.L.

BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 8 / 15 Replaced revision:1 (Dated 21/09/2021)

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The powders are potentially explosive when mixed with air.

10.4. Conditions to avoid

Avoid environmental dust build-up.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

LEAD POWDER

Prolonged exposure causes serious damage to the central nervous system and to the reproductive system.

Interactive effects

Information not available

ACUTE TOXICITY



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 9 / 15 Replaced revision:1 (Dated 21/09/2021)

SECTION 11. Toxicological information ... />>

ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component)

LEAD POWDER

LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation mists/powders): > 5 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

LEAD POWDER

Epidemiological studies show no significant increase in the cancer risk associated with exposure to various lead compounds. Nevertheless, a recent meta-analysis of these studies revealed a small increase in the incidence of certain types of cancer in high-risk subjects (foundries, battery production). This effect is known for the lungs and stomach and, more uncertainly, for the bladder (INRS, 2006).

REPRODUCTIVE TOXICITY

May damage fertility - May damage the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Causes damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 10 / 15

Replaced revision:1 (Dated 21/09/2021)

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

LEAD POWDER

LC50 - for Fish 0,0409 mg/l/96h Pimephales promelas EC50 - for Crustacea 0,026 mg/l/48h Ceriodaphnia dubia

EC50 - for Algae / Aquatic Plants 0,02 mg/l/72h Pseudokirchneriella subcapitata

LC10 for Fish 0,0178 mg/l/96h Cyprinus carpio

EC10 for Algae / Aquatic Plants 0,0061 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

0,0293 mg/l Pimephales promelas
0,11 mg/l Lymnaea stagnalis
0,0227 mg/l Skeletonema costatum

12.2. Persistence and degradability

LEAD POWDER

Solubility in water 185 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

LEAD POWDER

BCF 1553

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 11 / 15

Replaced revision:1 (Dated 21/09/2021)

SECTION 13. Disposal considerations ... / >>

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3077

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a

capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in

receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg

or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD POWDER)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD POWDER)
IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD POWDER)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9





14.4. Packing group

ADR / RID, IMDG, IATA: III



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 12 / 15 Replaced revision:1 (Dated 21/09/2021)

SECTION 14. Transport information ... / >>

14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous**

IMDG: Marine Pollutant

IATA: **Environmentally Hazardous**



14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 kg Tunnel restriction code: (-)

Special provision: -

IMDG: EMS: F-A, S-F

IATA: Cargo: Maximum quantity: 400 Kg Packaging instructions: 956 Packaging instructions: 956

Limited Quantities: 5 kg

Pass.: Maximum quantity: 400 Kg

Special provision: A97, A158, A179, A197, A215

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: **E1**

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Contained substance

Point 75

Point 30-63-72 **LEAD POWDER**

REACH Reg.: 01-2119513221-59-0012

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

Substances in Candidate List (Art. 59 REACH)

LEAD POWDER

REACH Reg.: 01-2119513221-59-0012

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

LEAD POWDER - (LEAD COMPOUNDS)

Substances subject to the Rotterdam Convention:

None



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022
Page n. 13 / 15
Replaced revision:1 (Dated 21/09/2021)

SECTION 15. Regulatory information ... / >>

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Repr. 1A Reproductive toxicity, category 1A

Lact. Reproductive toxicity, effects on or via lactation

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1 Hazardous to the aquatic environment, acute toxicity, category 1 Aquatic Acute 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1

H360D May damage the unborn child.

H360F May damage fertility.

May damage fertility. May damage the unborn child. H360FD

May cause harm to breast-fed children. H362

Causes damage to organs through prolonged or repeated exposure. H372

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Contains lead. Should not be used on surfaces liable to be chewed or sucked by **EUH201**

children.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 14 / 15

Replaced revision:1 (Dated 21/09/2021)

SECTION 16. Other information ... / >>

- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability



BO -101, 103, 111, 113, 114, 115, 116, 117, 121, 122, 123, 124

Revision nr.2 Dated 11/10/2022 Printed on 11/10/2022 Page n. 15 / 15 Replaced revision:1 (Dated 21/09/2021)

SECTION 16. Other information ... / >>

arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.