

Material Safety Data Sheet (MSDS)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1 Product identifiers

Product name : PB-SF-
Product Number : PB-SF-
Brand : PB-SF-
CAS-No.: 7439-92-1

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : LINBRAZE S.r.l.
Contrada Torre Chimera
93019 Sommatino (ITALY)
Telephone : +39 0922 871694
Fax: +39 0922 709064
E-mail address : info@linbraze.com

1.4 Emergency telephone number

Emergency Phone : +39 02 6610 1029 (Centro Antiveleni Niguarda Milano)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

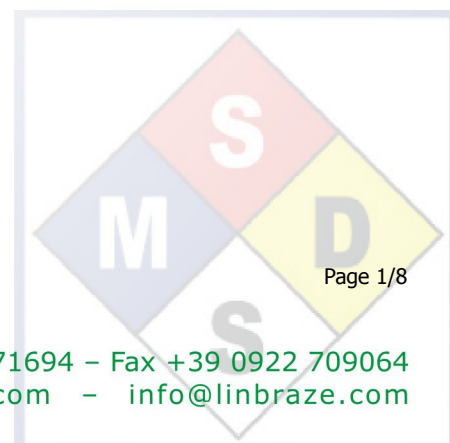
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 4)
Carcinogenicity (Category 2)
Reproductive toxicity (Category 1A)
Specific target organ toxicity - repeated exposure (Category 2)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

May cause harm to the unborn child. Possible risk of impaired fertility. Harmful by inhalation and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



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Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram:

Signal word:

Hazard statement(s)

H302 + H332

H351

H360Df

H373

H410

Precautionary statement(s)

P201

P273

P281

P308 + P313

P501

Supplemental Hazard Statements

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrases(s)

R61

R20/22

R33

R50/53

R62

S-phrases(s)

S53

S45

S60

S61

2.3 Other hazards

none

Danger



Harmful if swallowed or if inhaled

Suspected of causing cancer.

May damage the unborn child. Suspected of damaging fertility

May cause damage to organs through prolonged or repeated exposure

Very toxic to aquatic life with long lasting effects

Obtain special instructions before use.

Avoid release to the environment.

Use personal protective equipment as required.

If exposed or concerned: Get medical advice/ attention

Dispose of contents/ container to an approved waste disposal plant.

None



May cause harm to the unborn child.

Also harmful by inhalation and if swallowed.

Danger of cumulative effects.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Possible risk of impaired fertility.

Avoid exposure - obtain special instructions before use.

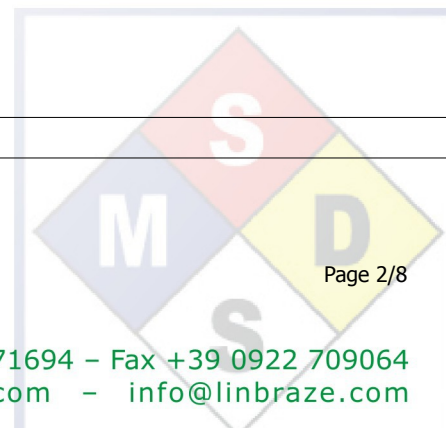
In case of accident or if you feel unwell, seek medical advice immediately

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Restricted to professional users.

3. COMPOSITION/INFORMATION ON INGREDIENTS



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3.1 Substances

Formula : **Lead 99,98%** CAS-No. 7439-92-1 EC-No. 231-100-4

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Anemia

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

Lead oxides,

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

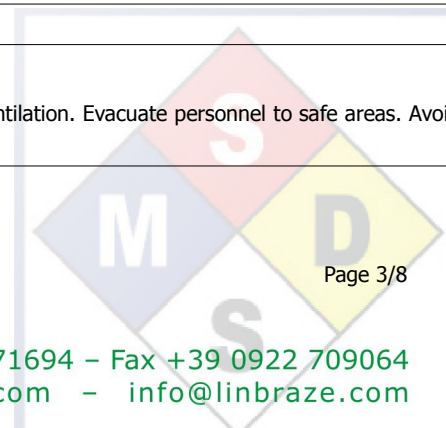
5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.



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6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

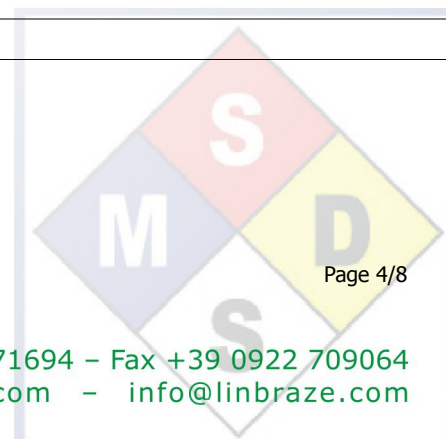
Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES



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9.1 Information on basic physical and chemical properties

a) Appearance Form:	Powder, Colour gray
b) Odour:	no data available
c) Odour Threshold:	no data available
d) pH:	no data available
e) Melting point/freezing point:	Melting point/range: 327,4 °C - lit.
f) Initial boiling point and boiling range:	1.740 °C - lit.
g) Flash point:	no data available
h) Evaporation rate:	no data available
i) Flammability (solid, gas):	The substance or mixture is a flammable solid with the subcategory 1.
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure:	no data available
l) Vapour density:	no data available
m) Relative density:	5,00 ÷ 7,00 g/cm ³ at 25 °C
n) Water solubility:	no data available
o) Partition coefficient: noctanol/water	no data available
p) Autoignition temperature:	no data available
q) Decomposition temperature:	no data available
r) Viscosity:	no data available
s) Explosive properties:	no data available
t) Oxidizing properties:	no data available

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

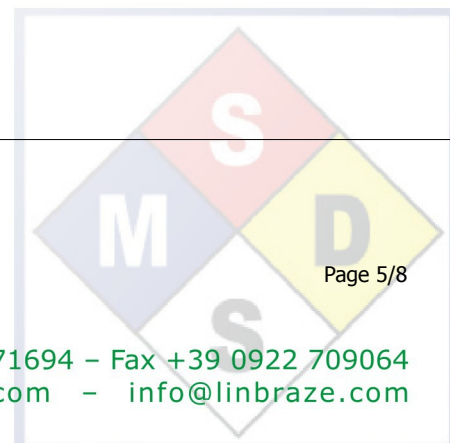
10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products



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Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

Genotoxicity in vivo - rat - Inhalation Cytogenetic analysis

Carcinogenicity

Limited evidence of carcinogenicity in animal studies IARC: 2B - Group 2B: Possibly carcinogenic to humans (Lead group entry Annex I)

Reproductive toxicity

Suspected human reproductive toxicant

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

no data available

Potential health effects

Inhalation:

Harmful if inhaled. May cause respiratory tract irritation

Ingestion:

Harmful if swallowed.

Skin:

Harmful if absorbed through skin. May cause skin irritation

Eyes:

May cause eye irritation.

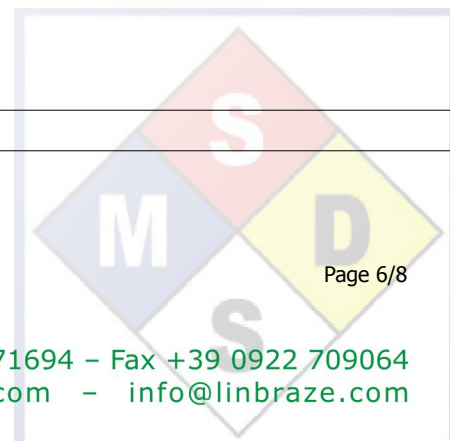
Signs and Symptoms of Exposure

anemia

Additional Information

RTECS: OF7525000

12. ECOLOGICAL INFORMATION



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12.1 Toxicity

Toxicity to fish	mortality LOEC - Oncorhynchus mykiss (rainbow trout) - 1,19 mg/l - 96,0 h
Toxicity to daphnia and other aquatic invertebrates.	mortality LOEC - Daphnia - 0,17 mg/l - 24 h
	EC50 - Daphnia magna (Water flea) - 0,04 - 0,05 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus kisutch - 2 Weeks -150 µg/l
	Bioconcentration factor (BCF): 12

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3077	IMDG: 3077	IATA: 3077
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14.2 UN proper shipping name

ADR/RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead group entry Annex I)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead group entry Annex I)
IATA:	Environmentally hazardous substance, solid, n.o.s. (Lead group entry Annex I)

