VITOBLEI 610

Version No:	1
Revised at:	10/09/2018
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1. Identification of the substance/mixture and of the company/undertaking

Product identifier:
VITOBLEI 610 (product)

Relevant identified uses of the substance or mixture and uses advised against:
Relevant identified uses:
Cover during galvanization
lead sheathing

Uses advised against:
Contact with food or cosmetics, toys and more. Please follow the relevant legislation

Details of the supplier of the safety data sheet:
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Emergency telephone number:
+49 228 / 19 240 Information Center for Poisoning of Bonn University

2. Hazards identification

classification of thatsubstance or mixture
Classification (Regulation (EG) No. 1272/2008)
Acute toxicity, category 4, Inhaling, H332
Acute toxicity, category 4, Oral, H302
Reproductive toxicity, category 1A, H360FD
Lact., additional category for effects on / via lactation, H362
Specific target organ toxicity – repeated exposure, category 1, STOT RE 1, H372
Acute aquatic toxicity, category 1, H400
Chronic aquatic toxicity, category 1, H410

For the full text of the H-Statements mentioned in this Section, see Section 16:

Labelling elements
Classification (Regulation (EG) No. 1272/2008)
hazard pictogram

Signal word
Danger

hazard statements

H360 FD	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
H302 + H332	Harmful if swallowed or if inhaled
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

prevention

P201	Obtain special instructions before use
P273	Avoid release to the environment

Reaction

P314	Get medical advice/attention if you feel unwell

Other hazards

Not known

3. Composition/information on ingredients

Chemical characterization:

Article ingredients are

Lead-foil (Pb97Sn1,5Sb1,5)
Adhesive (acrylate)
Liner (siliconised polyolefine film)

Dangerous ingredients, Regulation (EG) No. 1272/2008 (CLP):

Lead, solid (particle diameter ≥ 1 mm)

Formula	Pb
%range	40 bis < 100
EINECS, ELINCS	231-100-4
CAS-No.	7439-92-1

Classification / Hazard phrases
Reproductive toxicity, category 1A, H360FD
Acute toxicity, category 4, Inhaling, H332
Acute toxicity, category 4, Oral, H302
Specific target organ toxicity – repeated exposure, category 1, STOT RE 1, H372
Acute aquatic toxicity, category 1, H400
Chronic aquatic toxicity, category 1, H410

For the full text of the H-Statements mentioned in this Section, see Section 16:+

4. First aid measures

Description of first aid measures:

General informations:

No special measures are necessary.

Following inhalation:

Not applicable

Following skin contact:
In case of skin contact, immediately wash skin thoroughly with soap and water

Following eye contact:
After contact with eyes flush eyes with plenty of water (for approx. 10 minutes), protecting uninjured eye and with eyelids open

Following ingestion:
Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Notes for the doctor:

Most important symptoms and effects, both acute and delayed:
For lead compounds in general applies: because of the bad resorbability of gastro-intestinal mucous membrane, only high dose lead to acute cases of poisoning

5. Firefighting measures

Extinguishing media:

Suitable: Extinguishing to suit surroundings. Carbon dioxide; Extinguishing powder; Water spray jet; Fight big fire with directed water spray or Alcohol-resistant powder

Unsuitable: High power water jet

Special hazards arising from the substance or mixture:
Lead Oxide; Lead fumes
In case of fire formation of toxic gases like e.g. carbon monoxide (CO), carbon dioxide (CO_2) and chloric gas.

Advice for fire-fighters:
Use common protective clothing. Use self-contained breathing apparatus

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Refer to protective measures listed in section 7 and 8. Ensure adequate ventilation.

Environmental precautions:
Avoid release to the environment. Do not discharge into drains.

Methods and material for containment and cleaning up:
Pick up mechanically and dispose of according to section 13.

Reference to other sections:
Disposal: see section 13

7. Handling and storage

Precautions for safe handling:
Use general hygiene measures. Wash hands before breaks and at the end of work. Keep away from food, drink and stimulants. Take off contaminated clothing and protective equipment before entering areas where food is eaten.

Conditions for safe storage, including any incompatibilities:

The product must be stored in the original box at room temperature and a relative humidity of 40 - 60% and protected from direct sunlight. Shelf life can be found in the corresponding data sheet. Store away from acids, alkalis and oxidising agents.

Specific end uses:

Cover during galvanization
lead sheathing

8. Exposure controls/personal protection

Control parameters:

The substances are incorporated in the product and should not cause exposure under normal handling conditions.

Chem. Designation: lead, massive (particle diameter ≥ 1 mm)
Occupational Exposure Limits:

TRGS 905:	Reproductive toxicity: Fertility Hazard (RF): 2 Reproductive Toxicity: Developmental toxicity (RD): 1A
1998/24 / EC:	0.15 mg / m^3

Biological limits:

TRGS 903:	Women of childbearing potential, <45 years: 300 µg / l whole blood Women of non-reproductive age> 45 years and men: 400 µg / l whole blood
1998/24 / EC:	700 µg Pb / 100 ml whole blood

carcinogenic, mutagenic or toxic for reproduction

TRGS 505:	0.1 mg / m^3

Exposure controls:

Suitable technical control equipment

Ensure good ventilation. This can be achieved by local exhaust or general exhaust air. If this is insufficient to keep the concentration below the occupational exposure limit values (AGW), suitable respiratory protection must be worn.
Only applies if exposure limits are listed here.

Individual protection measures, for example personal protective equipment

The general hygiene measures in handling chemicals are to be followed. Wash hands before breaks and at the end of work. Keep away from food, drink and stimulants. Take off contaminated clothing and protective equipment before entering areas where it is eaten.

Eye / face protection

Normally not required.

Skin protection, hand protection

Suitable are chemical protection gloves tested to EN 374
Material: nitrile rubber NBR, thickness: 0.11 mm thick, breakthrough time:> 480 min
It is recommended to check the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

Skin protection - Other protective measures
Usual protective clothing

respiratory protection
Normally not required. Avoid dust formation. If the general dust limit value is exceeded, dust mask with fine dust filter required (EN 143), color code: white.

Thermal hazards
If applicable, these are listed in the individual protection measures (eye / face protection, skin protection, respiratory protection).

Limitation and monitoring of environmental exposure
Do not discharge into drains.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance:
Physical state: solid
Colour: No relevance for chemical properties of the article

Odour:
Characteristic odour

10. Stability and reactivity

Reactivity
The product is not reactive under normal ambient conditions.

Chemical stability
The product is chemically stable under normal ambient conditions (room temperature).

Possibility of dangerous reactions
Exothermic reaction with fluorine
Development of hazardous gases or vapors with nitric acid.
Risk of explosion with azides and picrates

Conditions to avoid
no information available

Incompatible materials
no information available

11. Toxicological information

Information on toxicological effects:

Material: lead, solid (particle diameter ≥ 1 mm), CAS-No. 7439-92-1, EC no. 231-100-4

toxicity / impact	endpoint	organism	time	Value / raiting	source
Acute oral toxicity	LD 50	rat		2000 mg / kg body weight	CSR
Acute dermal toxicity	LD 50	rabbit		2000 mg / kg body weight	CSR
Acute inhalation toxicity	LC 50	rat	4 h dust	5 mg / L	CSR
Skin corrosion / irritation				Due to available data, the classification criteria are not fulfilled	CSR
Serious eye damage / irritation				Due to available data, the classification criteria are not fulfilled	CSR
Respiratory or skin sensitization				Due to available data, the classification criteria are not fulfilled	CSR
Germ cell mutagenicity				Due to available data, the classification criteria are not fulfilled	CSR
reproductive toxicity				Due to available data, the classification criteria are not fulfilled	CSR
carcinogenicity				Due to available data, the classification criteria are not fulfilled	CSR
Specific target organ toxicity - single exposure				Due to available data, the classification criteria are not fulfilled	CSR
Specific target organ toxicity - repeated exposure				Due to available data, the classification criteria are not fulfilled	CSR
Aspiration				Due to available data, the classification criteria are not fulfilled	CSR

12. Ecological information

Toxicity:

Material: lead, solid (particle diameter ≥ 1 mm), CAS-No. 7439-92-1, EC no. 231-100-4

toxicity / impact	end-point	organism	Time	Value / raiting
Fish toxicity (acute)	LC 50	Oncorhynchus mykiss	96 h	107 µg / L Pb (soluble lead salts, pH> 5.5-8.5 tested) / Due to available data, the classification criteria are not fulfilled
Fish toxicity (chronic)				No data available
Daphnia toxicity (acute)	EC 50	Daphnia magna	48h	170,5 µg / L Pb (soluble lead salts, pH> 5.5-8.5 tested) / Due to available data, the classification criteria are not fulfilled
Daphnia toxicity (chronic)				No data available

Algae toxicity (acute)	EC 50	Pseudokirchneriella subcapitata	72 h	233,1 µg / L Due to available data, the classification criteria are not fulfilled
Algae toxicity (chronic)				No data available
bacteria toxicity				No data available

Persistence and degradability:
No information available

Bioaccumulative potential:
No information available

Mobility in soil:
No information available

Results of PBT and vPvB asessment:
No information available. No use of PBT or vPvB classified substances.

Other adverse effects:
No information available

13. Disposal considerations

Article:
Dispose according to legislation.

14. Transport information

Article:
No dangerous good

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Not applicable.

Chemical Safety Assessment:
Not applicable.

16. Other information

Indication of changes:
None, first edition

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