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

Product identifier:

VITOBLEI 610

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:

VITO Irmen GmbH & Co. KG Mittelstraße 74 – 80 53424 Remagen Deutschland

Phone: +49 2642 4007 74

Email: marcus.weber@vito-irmen.de

available from Mon to Thu from 7:15 - 16:00 and Fri from 7:15 - 13:00

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

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hazard statements

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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

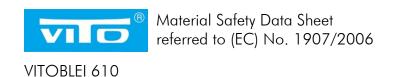
Description of first aid measures:

General informations:

No special measures are necessary.

Following inhalation:

Not applicable



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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 (CO₂) 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:

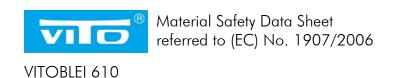
Disposal: see section 13

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.





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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 / m³

Biological limits:

TRGS 903: Women of childbearing potential, <45 years: 300 μg / I whole blood

Women of non-reproductive age > 45 years and men: $400 \mu g / I$ whole

blood

1998/24 / EC: $700 \mu g Pb / 100 ml whole blood$

carcinogenic, mutagenic or toxic for reproduction

TRGS 505: $0.1 \text{ mg} / \text{m}^3$

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.



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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

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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



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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	endpoint	organism	time	Value / raiting	source
/ impact					
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	5 mg / L	CSR
			dust		
Skin corrosion / irritation				Due to available data, the	CSR
				classification criteria are not fulfilled	
Serious eye damage /				Due to available data, the	CSR
irritation				classification criteria are not fulfilled	
Respiratory or skin				Due to available data, the	CSR
sensitization				classification criteria are not fulfilled	
Germ cell mutagenicity				Due to available data, the	CSR
				classification criteria are not fulfilled	
reproductive toxicity				Due to available data, the	CSR
				classification criteria are not fulfilled	
carcinogenicity				Due to available data, the	CSR
				classification criteria are not fulfilled	
Specific target organ				Due to available data, the	CSR
toxicity - single exposure				classification criteria are not fulfilled	
Specific target organ				Due to available data, the	CSR
toxicity - repeated exposure				classification criteria are not fulfilled	
Aspiration				Due to available data, the	CSR
				classification criteria are not fulfilled	

12. Ecological information

Toxicity:

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

toxicity	end-	organism	Time	Value / raiting
/ impact	point			
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



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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

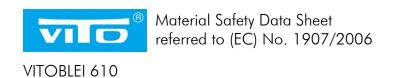
Safety, health and environmental regulations/legislation specific for the substance or mixture:

Not applicable.

Chemical Safety Assessment:

Not applicable.





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16. Other information

Indication of changes:

None, first edition

Date sheet writer:

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.