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Contact person: Jiri Matusik
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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

ZINC SELENITE

Date: 09.05.2009 Version: 2.0 replaces version: 1.0 from 17.04.2005 pages: 13

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Substance/Preparation identification

Chemical name: ZINC SELENITE

CAS No.: 13597-46-1

EINECS: 237-048-9

Molecular Weight: 192,34

Molecular formula: ZnSeO₃

PRE-REFERENCE NUMBER:

Use of the substance:

Company/Undertaking Identification:

The person responsible for commercial introduction of the substance in the EU:

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Mobile: +420 608 770 335; +420 775077333
Warehouse: Hranická 773, 757 01, Valašské Meziříčí
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KLEMAT CZ Ltd.
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2 HAZARDS IDENTIFICATION

Classification

T; R23/25 Toxic by inhalation and if swallowed.

N; R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R33
Hazard symbols



N

Danger of cumulative effects.

Toxic

Dangerous for the environment

R phrases

23/25 Toxic by inhalation and if swallowed.

33 Danger of cumulative effects.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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3 COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical characterization

ZINC
SELENITE

Substance / product identification

Index no.	034-002-00-8
CAS no.	13597-46-1
EC no.	237-048-9
Molecular weight	192,34
Formula	ZnSeO ₃



4 FIRST AID MEASURES

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of accident or if you feel unwell, seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

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Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Separate eyelids; wash the eyes thoroughly with water (15 min.). Eye treatment should be done by an oculist.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse out mouth and give plenty of water to drink. Administer vitamin C as antidote and cause immediate vomiting. Toxic effect is superior to acid effect.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Extinguishing media that must not be used for safety reasons

Water

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of combustion evolution of dangerous gases possible.

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

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Other information

Fire residues and contaminated firefighting water must be disposed off in accordance with the local regulations.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

Refer to protective measures listed in sections 7 and 8. Remove persons to safety. Avoid dust formation. Use breathing apparatus if exposed to vapours/dust/aerosol.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Pick up mechanically. Send in suitable containers for recovery or disposal.

7 HANDLING AND STORAGE

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Avoid the formation and deposition of dust. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. **Storage**

Requirements for storage rooms and vessels

Store product in closed containers. Keep only in the original container.

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Advice on storage assembly

Do not store together with foodstuffs.

Keep away from water.

Metals which are attacked by an alkaline medium.

Further information on storage conditions

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

NONE

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Short term: filter apparatus, Filter P3

Hand protection

Chemical resistant gloves (EN 374)

Appropriate Material – neoprene

Eye protection

Tightly fitting safety glasses (EN 166).

Skin protection

Acid-resistant protective clothing

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General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale dust. Store work clothing separately. Avoid contact with eyes and skin. Have eye wash fountain available. Have emergency shower available.

9 PHYSICAL AND CHEMICAL PROPERTIES

General information



Form	Powder
Colour	white
Odour	odourless

Important health, safety and environmental information

Changes in physical state

Type	Decomposition temperature
Value	$\geq 350^{\circ}\text{C}$

Flash point

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Remarks

not applicable

Explosion limits

Remarks

not applicable

Vapour pressure

Remarks

not applicable

Bulk density

Value

appr.1900 kg/m³

Solubility in water

Remarks

insoluble

pH value

Value

appr.7

Reference temperature

20°C

Concentration

10g/l

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10 STABILITY AND REACTIVITY

Conditions to avoid

Temperatures which lead to decomposition.

Hazardous decomposition products

At strong heating, decomposition under selenium dioxide formation may occur.

11 TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity

LD50

50mg/kg

Species

rat

Irritant/corrosive effects

Irritant effect on skin

Evaluation

irritant

Irritant effect on eyes

Evaluation

irritant

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12 ECOLOGICAL INFORMATION

Other adverse effects

Do not discharge into the drains or waters and do not store on public depositories.

13 WASTE DISPOSALS

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

14 TRANSPORT INFORMATION

Land transport ADR/RID

Class	6.1 Classification code T5
Packaging group	I
Hazard id. no.	66
Label	6.1

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UN number	2630
Technical name	Selenites
Danger releasing substance	ZINC SELENITE

Marine transport IMDG

Class	6.1
Packaging group	I
UN number	2630
Proper shipping name	Selenites
Danger releasing substance	ZINC SELENITE
EmS	F-A, S-A
MARPOL	P

Air transport ICAO/IATA

Class	6.1
Packaging group	I
UN number	2630

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Proper shipping name	Selenites
Danger releasing substance	ZINC SELENITE
Label	6.1

15 REGULATORY INFORMATION

Labelling in accordance with EC directives "EC-label" EC no.237-048-9 (ZINC SELENITE)

Hazard symbols TToxic

R phrases

23/25 Toxic by inhalation and if swallowed.

33 Danger of cumulative effects.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

20/21 When using do not eat, drink or smoke.

28.2 After contact with skin, wash immediately with plenty of water and soap.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

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

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 2, category 2

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16 OTHER INFORMATION

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

Recommended use restrictions

Information contained in this Safety Data Sheet refers to this particular substance. It may be invalid in case this substance is used together with any other materials or in any other production process. The User bears responsibility for assessment of applicability and completeness of this information for his particular applications.

DISCLAIMER:

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