

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

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

1.1. Product identifier

Natrii dithionosum

Item-No. 06612800

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible
for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Self-heat. 1 H251

Acute Tox. 4 H302

Classification in accordance with EC directives

Classification Xn, R22

R31

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements ***

H251 Self-heating: may catch fire.

H302 Harmful if swallowed.

EUH031 Contact with acids liberates toxic gas.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.

P220 Keep/Store away from clothing/.../combustible materials.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

P501.1

Dispose of contents/container to be taken to an authorised special waste incineration plant.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols ***

Harmful

R phrases

- | | |
|----|---|
| 7 | May cause fire. |
| 22 | Harmful if swallowed. |
| 31 | Contact with acids liberates toxic gas. |

S phrases ***

- | | |
|-----|---|
| 7/8 | Keep container tightly closed and dry. |
| 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| 28 | After contact with skin, wash immediately with plenty of . . . (to be specified by the manufacturer). |
| 43 | In case of fire, use carbon dioxide (CO ₂) extinguishing powder or sand. Never use water. |

Hazardous component(s) to be indicated on label

contains Sodium dithionite

3. Composition/information on ingredients *****Hazardous ingredients *******Sodium dithionite**

CAS No.	7775-14-6			
EINECS no.	231-890-0			
Concentration		>=	50	%
Classification	Xn, R22 -, R7 R31			

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Self-heat. 1	H251

Sodium carbonate

CAS No.	497-19-8					
EINECS no.	207-838-8					
Concentration		>=	1	<	10	%
Classification	Xi, R36					

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319
--------------	------

4. First aid measures

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Remove affected person from danger area, lay him down. Take affected person to fresh air.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical aid immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

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

Irritation of mucosa, Coughing, Nausea, Convulsions, Gastrointestinal complaints, Cardiovascular disturbance, CNS depression

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide

Non Suitable extinguishing media

Water spray jet, Water mist, Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Sulphur dioxide (SO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep away unprotected persons. Respiratory protection

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Information regarding personal protective measures see, chapter 8. Information regarding Safe handling, see chapter 7. Information regarding Waste Disposal, see chapter 13.

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe the usual precautions for handling chemicals. Avoid contact with skin, eyes and clothing. Avoid dust formation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from heat and sources of ignition. Smoking, eating and drinking should be prohibited in application area.

Advice on protection against fire and explosion

Substance/product ignites spontaneously.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place.

Hints on storage assembly

Do not store with acids. Keep away from water. Do not store with strong oxidizing agents.

VCI storage category

VCI storage category 4.2 Spontaneously flammable substances

Further information on storage conditions

Store in a dry place. Protect from atmospheric moisture and water. Protect from heat.

8. Exposure controls/personal protection ***

8.2. Exposure controls

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work. Avoid contact with eyes and skin. Before beginning work use a water resistant skin protection lotion. Hold eye wash fountain available. At work do not eat, drink, smoke or take drugs. Do not inhale dust/fumes/mist.

Respiratory protection

Breathing apparatus in the event of aerosol, mist or fume formation. combination filter E-P2

Hand protection ***

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Natural Latex		
Penetrating time	> 480	min	
Appropriate Material	nitrile rubber - NBR		
Penetrating time	> 480	min	

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Powder
Colour	white

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

Odour pungent

pH

Value	8	to	10.5
Concentration/H ₂ O	50	g/l	
Temperature	20	°C	

Boiling point

Remarks not determined

Flash point

Value	°C
Remarks	Not applicable

Flammability

self inflammable

Solubility in water

Value	150	g/l
Temperature	20	°C
Remarks	slow decomposition	

Thermal decomposition

Value	> 80	°C
-------	------	----

9.2. Other information

Bulk density

Value	1150	to	1300	kg/m ³
-------	------	----	------	-------------------

10. Stability and reactivity

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Thermal decomposition

Value	> 80	°C
-------	------	----

10.5. Incompatible materials

Reactions with strong oxidising agents. Reactions with damp air. Evolution of sulphur dioxide under influence of acids. Reacts violently with: Water

10.6. Hazardous decomposition products

In the event of fire the following can be released: sulphurous oxides (SO_x)

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat		
LD50	2500		mg/kg

Acute dermal toxicity

Species	rat		
LD50	> 2000		mg/kg

Acute inhalational toxicity

Species	rat		
LC50	> 5.5		mg/l
Duration of exposure	4	h	

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

Skin corrosion/irritation

Remarks Irritating effects on the skin and mucous membrane.

Serious eye damage/irritation

Species rabbit
 Method OECD 405
 Remarks Irritates the eyes.

Sensitization

Species mouse
 Method OECD 429
 Remarks No sensitisation effect known.

Mutagenicity

valuation No experimental indications on genotoxicity in vivo found.

Reproduction toxicity

Remarks No indications of toxic effects were observed in reproduction studies in animals.
 Remarks Test conducted with a similar formulation.

Carcinogenicity

Remarks No evidence available on carcinogenicity.

12. Ecological information *****12.1. Toxicity****Fish toxicity *****

Species golden orfe (*Leuciscus idus*)
 LC50 62.3 mg/l
 Duration of exposure 96 h
 Method DIN 38412 / Part 15

Daphnia toxicity

Species *Daphnia magna*
 EC50 98.3 mg/l
 Duration of exposure 48 h

Algae toxicity

Species *Scenedesmus subspicatus*
 EC50 206 mg/l
 Duration of exposure 72 h
 Method DIN 38412 / Part 9

Bacteria toxicity

Species activated sludge
 EC20 120.5 mg/l
 Duration of exposure 3 h

12.2. Persistence and degradability**Biodegradability**

Remarks Inorganic product, cannot be eliminated from the water by biological purification processes.

Biochemical oxygen demand (BOD5)

Value appr. 210 mg/g

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential *****

Trade name: Natrii dithionosum

Substance number: 066128

Version: 2 / CH

Date revised: 14.06.13

Replaces Version: 1 / CH

Date of printing: 14.06.13

31 Contact with acids liberates toxic gas.
36 Irritating to eyes.
7 May cause fire.

Hazard statements listed in Chapter 3

H251 Self-heating: may catch fire.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.