

SAFETY DATA SHEET

1 – IDENTIFICATION OF SUBSTANCE / AGENT AND COMPANY / FIRM

Identification of substance / agent:

Name: Zn dust
Product code: 5001
Use: Zinc dust for nitratereductase in the NIT test.

Identification of company / firm:

Name: DIAGNOSTICS s.r.o.
Address: Hodská 68, 924 01 Galanta
Tel.: +421 917 742 927 Fax: +421 269 202 902
E-mail: info@diagnostics.sk
<http://www.diagnostics.sk>

Emergency link:

Organization: National toxicological information centre, Limbová 5, 833 05 Bratislava
Tel.: +421-2-54 774 166

2 – IDENTIFICATION OF HAZARDS

Classification of the substance or mixture:

Classification (ES 1272/2008 Directive):

Acute aquatic toxicity, cat. 1, H400
Chronic aquatic toxicity, cat. 1, H410

Full text of H-data stated in this section see sec. 16.

Classification (67/548/EHS or 1999/45/ES):

N; R50/53

Full text of R sentences stated in this section see sec. 16.

Marking elements:

Marking (Directive ES 1272/2008):

Warning pictograms:



Warning word:

Attention

Warning alerts:

H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects.

Safety precautions:

P273 Avoid release to the environment.
P391 Collect spillage.

Marking (67/548/EHS or 1999/45/ES):

Symbols:	N	Dangerous for the environment
R-phrases:	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases:	60-61	This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet.
	7-16	Keep containers tightly closed. Keep away from sources of ignition - No smoking.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous compounds (Directive ES 1272/2008):

CAS no.	EK no.	Index no.	Name	Classification	Amount
7440-66-6	231-175-3		Zinc dust	H400, H410	100%

Dangerous compounds (1999/45/ES):

CAS no.	EK no.	Index no.	Name	Classification	Amount
7440-66-6	231-175-3		Zinc dust	N; R50/53	100%

Full text of H-Statements and R-phrases mentioned in this section, see Section 16

4 – FIRST AID MEASURES

Description of first aid measures:

Contact with eyes:

Rinse eyes with open lids several minutes with flow of running. Consult with doctor in case of retaining difficulties.

Contact with skin:

Immediately wash with amount of water. Remove contaminated clothing .

After swallow:

Let victim drink water(no more than 2 cups). In case of nausea call doctor.

After inhalation:

Transfer affected person on fresh air.

5 – FIREFIGHTING MEASURES

Suitable extinguishing agents:

For extinguishing use these sorts of fire extinguishers carbon dioxide, foam or dry chemical according to materials stored in immediate proximity.

Specific hazards:

No information available.

Additional information:

Avoid contamination of system of surface or underground waters by water used for fire extinguishing.

6 – ACCIDENTAL RELEASE MEASURES

Specific protective measures:

Wear suitable protective clothing. Avoid contact with substance. Provide adequate ventilation. Do not inhale vapours / spray.

Environmental protective measures:

Prevent entering canalization system.

Cleaning methods:

Remove by absorbent material. Send for disposal. Clean affected place with water and detergent.

7 – HANDLING AND STORAGE

Handling:

Keep workplace dry. Avoid contact with water.

Storage:

Store in a tightly closed container. Storage temperature: no restrictions.

8 – EXPOSURE CONTROLS / PERSONAL

PROTECTION Control parameters:

Contains no substances with occupational exposure limit values in the workplace.

Respiratory protection:

Necessary if the dust is formed.

Eyes protection:

Use safety glasses.

Additional information in section 11 – Toxicological information

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information:

State:	solid
Colour:	grey
Odour:	odourless
Melting point:	420°C
Solubility in water:	at 20 ° C insoluble, (reaction)
Ignition temperature:	460°C

10 – STABILITY AND REACTIVITY

Reactivity:

Self-igniting. Risk of dust explosion.

Possibility of hazardous reactions:

Exothermic reaction with: alkali hydroxides, oxides of arsenic, chlorine, fluorine, sulfur, carbon disulfide, selenium, acids.

Risk of explosion with: ammonium compounds, azides, chlorates, iodine, water, metal catalysts, nitric acid, hydroxylamine, hydrazine, a halogenated hydrocarbon.

Conditions to avoid:

Exposure to moisture.

Incompatible materials:

There is no information available.

Hazardous decomposition products:

There is no information available.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

Acute inhaled toxicity

Symptoms: Possible damages: May cause damage to the respiratory system.

Skin irritation

Mild irritation

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative (Lit.)

Carcinogenitiy

No indication of carcinogenic effects (IUCLID)

Reproduction toxicity

There is no need to expect any impairment of reproductive performance (IUCLID)

Teratogenicity

No indication of teratogenicity properties (IUCLID)

Toxicity Specific target organ toxicity - single exposure

The substance or mixture is not classified as a pollutant to target organs, repeated exposure.

Aspiration hazard

No toxicity classification.

Additional toxicological data:

Quantitative data on the toxicity of this product are not available.

After absorption: fever, muscular symptoms, pain, cardiovascular disorders, nausea, vomiting.

Additional data:

Other dangerous properties cannot be excluded.

Product must be handled with care usual for chemicals.

12 – ECOLOGICAL INFORMATION

Ecotoxicological effects:

Quantitative data on the ecological effects of this product are not available.

Additional ecological data:

There is no need to expect any environmental problems if the product is handled and used with care and attention . Do not allow to enter waters, waste water, or soil

13 – DISPOSAL INFORMATION

Product:

Product disposal must be made according to official regulations.

Packaging:

Packaging disposal must be made according to official regulations.

14 – TRANSPORT INFORMATION

Product is not classified as dangerous according to transport regulations.

15 – REGULATORY INFORMATION

This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, in CLP Regulation (EC) No 1272/2008 and in Annex II of Commission Regulation (EU) No 2015/830

Operating limits:

Take note of Directive 94/33/EC on the protection of young people at work.

16 – OTHER INFORMATION

Full text of H- data stated in this section 2 a 3:

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

Full text of R-phrases stated see in sec. 2 a 3:

R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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*Information stated in this safety data sheet is based on current state of our knowledge.
It characterises product with consideration on adequate safety measures. It does not represent warranty of material properties.*