

EC Safety data sheet

in accordance with Regulation (EC) No. 1907/2006

Trade name: **Zinc acidic**
Product number: **2410 GZ, 2450 GZ**

Revised on: 15.04.2013
Print date: 15.04.2013

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1. Description of the substance / the mixture and the company

1.1 Product identifier

Trade name: Zinc acidic
Article number: 2410 GZ, 2450 GZ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Industrial use

1.3. Details of the supplier who provides the safety data sheet

Supplier: Bymat GmbH
Neusser Str. 106
D - 41363 Jüchen, Germany
Phone: +49 2165 / 87 28 -0
Fax: +49 2165 / 87 28 28
Email: info@bymat.de

1.4. Emergency number

+49 (0) 21 173 - 53 75 366 (Michael Byhahn)

2. Possible risks

2.1. Classification of the substance or mixture Classification in

accordance with Regulation (EC) No. 1272/2008



GHS09 environment
Aquatic Chronic 2 H411 - Poisonous to water organisms, long-term effect



GHS07
Exe irrit. 2 H319 Causes severe eye irritation

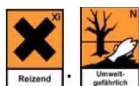
Classification (1999/45/EEC) Xi; Irritant, R 36 Irritates the eyes
N; Environmentally dangerous

The product acts as an irritant to eyes and skin.

2.2 Labelling elements

Contains Zinc sulphate

Labelling



Risk phrases: R phrases: R 36 irritates the eyes

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Safety phrases: S phrases:	R 51/53	Poisonous to water organisms, can have a longer-term harmful effect in waterbodies.
	S 26	Upon contact, immediately flush eyes thoroughly with water and consult a doctor.
	S 24/25	Avoid contact with eyes and skin.
	S 36/37/39	Wear suitable protective clothing, gloves and glasses/face mask during work.
	S45	In case of accident or if feeling unwell, consult a doctor immediately. (If possible, show this label.)
	S 53	Avoid exposure — obtain special instructions before use. - Only for the professional user -
S 60	This product and its container must be disposed of as hazardous waste.	

2.3 Other hazards

3. Composition / details of components

3.1 Substances

This product is a mixture.

3.2 Mixtures

galvanic preparation for tampon plating, contains zinc sulphate in aqueous solution

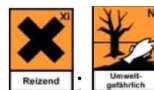
Zinc sulphate EC No.: 231-793-3; CAS No.: 7446-20-0 Part: 5 -10 %

Classification in accordance with
EC 1272/2008:



H411 Poisonous to water organisms, long-term effect
H319 Causes severe eye irritation

Classification in accordance with Directive 67/548/EEC)



Xi; R36 Irritates the eyes
R 51/53 Poisonous to water organisms, can have a longer-term harmful effect in waterbodies.

(Refer to section 16 for the wording of the listed hazard notes)

4. First-aid measures

4.1 Description of first-aid measures

General advice:

Following inhalation: Provide warmth and fresh air and stay calm.

Following skin contact: Wash off with water, replace drenched clothing immediately.

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Following eye contact: Immediately flush with plenty of water for 10 minutes, consult a doctor.

Following ingestion: Rinse with water
Do not induce vomiting! Drink plenty of water.

4.2 The most important occurring acute and delayed symptoms and effects

Eye contact
Strong irritation to eyes and mucous membranes including burning and tears.

4.3 Instructions for immediate medical attention or special treatment

For unconsciousness or if in doubt, alert the emergency doctor.

5. Measures for fire fighting

5.1 Extinguishing agents

Suitable extinguishing agents

Suitable: Water spray jet, foam (alcohol-resistant), carbon dioxide, powder, spray (water).

5.2 Special hazards emanating from substance or mixture

The product is not combustible. If heated, caustic vapours/gases can develop.

5.3 Notes on fire fighting

Remain in the hazardous area only with breathing apparatus with independent circulation.
Precipitate vapours with water.
Avoid skin contact by wearing suitable protective clothing and maintaining a safety distance.

6. Measures in the event of unintentional release

6.1 Personal precautions, protective equipment and procedures to be used in emergencies

Note for personnel not trained for emergencies: Avoid product contact and inhaling solvent vapours. Avoid skin contact by maintaining a safety distance or by wearing suitable protective clothing.

6.2 Environmental protection measures

Prevent the product from penetrating the ground and large quantities of polluted wash water from accessing bodies of water. Cover the sewage systems to prevent the product from penetrating the sewage system.

6.3 Methods and material for retention and cleaning

Soak up leaked material with a chemisorption agent, diatomaceous earth or sawdust, wipe down wet and dispose of as special waste.

Contaminated extinguishing water must not access the sewage system

6.4 Reference to other sections

Observe protective measures in section 8.

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7. Handling and storage

7.1 Protective measures for secure handling

Do not leave vessels open.

General hygienic measures:

- Do not eat, drink or smoke in working areas
- Wash hands after use
- Take off contaminated clothing and protective equipment before entering areas where food is being eaten.

7.2 Conditions for safe storage while observing incompatibilities

Requirements towards storage rooms and containers

Store in an area with solvent-resistant floor or in a drip pan so that the ground water is protected in case of leaks.

Always store in containers that comply with the original drum.

7.3 Specific end uses

Please refer to our Technical Data Sheet for additional notes.

8. Restriction and monitoring of exposure/personal protective equipment

8.1 Parameters to be monitored

The product does not contain any relevant quantities of substances subject to workplace-related limiting values.

8.2 Restriction and monitoring of exposure

Personal protective equipment



Technical measures

Ensure good ventilation. This can be achieved through local removal by suction or general outgoing air.

Personal protective equipment

The type of personal protective equipment must be selected according to hazardous substance concentration and quantity and specific to workplace.

Respiratory protection

When the workplace limit value is exceeded, suitable respiratory protection must be worn: comply with the rules for the use of breathing apparatus as well as wearing time restriction in accordance with trade association Rule 2 (BGR) 190.

Hand protection

Wear chemical-resistant protective gloves.

Eye protection

Use protective glasses with side guard in accordance with EN 166:2001.

General protection and hygiene measures

Ensure good ventilation, switch on outlet or fan, avoid skin contact, do not eat or drink during work, wash your hands with soap after completing work.

9. Physical and chemical properties

9.1 Information to basic physical and chemical properties

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Appearance

State of aggregation:	Liquid
Colour:	yellowish
Odour:	Weakly acidic
Density: (20°C)	1.23 g/cm ³
pH value (20°C)	4
Flash point:	
Ignition temperature:	Not determined
Water solubility:	(20°C) completely soluble

9.2 Other information

Further physical-chemical data were not found.

10. Stability and reactivity

10.1 Reactivity

There are no specific reactivity hazards that can be associated with this product.

10.2 Chemical stability

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

10.3 Possibility of dangerous reactions

If used as intended, no dangerous reactions are to be expected.

10.4 Conditions to avoid

Avoid excessive heat over a longer period.

10.5 Incompatible materials

No information

10.6 Dangerous decomposition products

Not known.

11. Toxicological information

11.1 Information to toxicological effect

Inhalation: Can irritate respiratory tract. Vapours irritate the respiratory tract and can cause throat inflammation and breathing difficulties.

Ingestion: Can cause nausea or vomiting.

Skin contact: Slight irritations.

Eye contact: Irritation.

12. Environment-related information

12.1 Toxicity

No data available

Fish toxicity

7446-20-0 Zinc sulphate-Heptahydrate
LC50 0.1 mg/l/96 h (Onchorhynchus mykiss)

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Algae toxicity

7446-20-0 Zinc sulphate-Heptahydrate
IC50 0.52 mg/l (Scenedesmus quadricauda)

12.2 Persistence and degradability

Degradability
No data available

12.3 Bioaccumulation potential

Bioaccumulation potential
The product does not contain any substances that are bioaccumulative as expected.

12.4 Mobility on ground

Mobility:
The product is water soluble.

12.5 Results of PBT and vPBT/vPvB classified.

In accordance with current EU criteria, not classified as PBT/vPvB.

12.6 Other harmful effects

Not determined.

13. Advice on disposal

13.1 Procedure of waste treatment

Dispose of waste and residues in compliance with local official guidelines.

14. Information on transportation

14.1 UN Number

UN No. (ADR/RID/ADN)	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulphate – heptahydrate)
UN No. (IMDG)	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulphate heptahydrate)
UN No. (ICAO)	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulphate heptahydrate)

14.2 Proper UN shipping name

Correct shipping name: Environmentally hazardous substance, liquid, N.O.S. (zinc sulphate-heptahydrate)

14.3 Transport hazard classes

ADR/RID/ADN Class	Class 9	Various hazardous substances and objects
ADR Label No.	9	
IMDG Class	9	
ICAO Class/Sub-class	9	
ICAO Subsidiary hazard		

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Transport designation



14.4 Packaging group

ADR/RID/ADN Packaging group	III
IMDG Packaging group	III
ICAO Packaging group	III

Additional transport information ADR

Limited quantity 5 L
Transport category 3

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant: Yes
The product contains environmentally harmful substances: Zinc sulphate-heptahydrate

14.6 Special precautions for the user

EMS	F-A, S-B
Hazard Code	2R
Hazard No. (ADR)	90
Tunnel restriction code	(E)

14.7 Bulk goods transport in accordance with Appendix II of the MARPOL Convention 73/78 and as per IBC Code

No information required

15. Legal specifications

15.1 Specifications on safety, health and environmental protection/Specific legal specifications for the substance or the mixture

EU legal specifications

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND COUNCIL dated 18 December 2006 on the registration, evaluation, authorisation and restriction of chemical substances (REACH), on the creation of a European Agency for chemical substances, on the modification of the Directive 1999/45/EC and on the repeal of the Regulation (EEC) No. 793/93 of the Council, the Regulation (EC) No. 1488/94 of the Committee, the Directive 76/769/EEC of the Council as well as the Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Committee

15.2 Chemical safety assessment

The mixture was not subjected to a safety assessment

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16. Other Information

Risk phrases:

R phrases: R 22 Harmful to health on ingestion.
R 41 Risk of serious eye damage.
R 51/53 Poisonous to water organisms, can have a longer-term harmful effect in waterbodies.

Complete hazard notes

H phrases:

H302 Harmful to health on ingestion
H314 Causes severe caustic burns to skin and severe eye damage
H400 Very poisonous to water organisms.
H410 Very poisonous to water organisms with long-term effect.

Bibliography and data sources

Regulations

Preparations directive (1999/45/EC), last changed by the Regulation (EC) No. 1907/2006. Substance directive (67/548/EEC), last changed by the Directive 2009/2/EC.
REACH Regulation (EC) No. 1907/2006, last changed by the Regulation (EU) No. 412/2012.
CLP regulation (EC) No. 1272/2008, last changed by the Regulation (EU) No. 286/2011.

Methods used as per Article 9 of the Regulation (EC) No. 1272/2008 on the assessment of information for the purpose of classification:

Classification in accordance with Regulation (EC) No. 1272/2008, Appendix VII (conversion table)

Legend

ADR European convention on the international transport of hazardous goods by road
(BlmSchV) Regulation for the implementation of the Federal Immission Control Act
CAS Chemical Abstracts Service
DIN Standard of the German Institute for Standardization (Deutsches Institut für Normung)
EC Effective Concentration
EC European Community
EN European Standard
IATA-DGR International Air Transport Association-Dangerous Goods Regulations ICAO-TI
International Civil Aviation Organization-Technical Instructions
IMDG-Code International Maritime Code for Dangerous Goods
ISO International Standards Organization
IUCLID International Uniform Chemical Information Database
LC Lethal Concentration
LD Lethal Dosage
MARPOL Maritime Pollution Convention = convention on prevention of maritime pollution through ships
OECD Organisation for Economic Co-operation and Development PBT
Persistent, bioaccumulative, toxic
RID Regulation for international railway transport of hazardous goods
TRGS Technical Rules for Hazardous substances
UN United Nations
VOC Volatile Organic Compounds vPvB very persistent and very bioaccumulative
VwVwS German Regulation on Substances Hazardous to Water
WGK Water hazard class

Exclusion of liability

According to our state of knowledge, the information contained herein is correct. However, the manufacturer shall not be held liable in terms of correctness or completeness of the specified information. All materials can contain unknown risks and must therefore be applied with caution.