



SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Section 1: Identification of the substance/mixture and of the company /undertaking

1.1 Product identifier

Trade name: **GALVANISING ALLOY CGG**
 Synonyms: galvanising alloy ZZA 02; ZZA 03; ZZA 04; ZZA 05; ZZA 06; ZZA 07; ZZA 08, ZZA 1.

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

Relevant identified uses: in galvanising industry the material is used for unit hot galvanising of steel and cast iron products.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zakłady Górniczo-Hutnicze „Bolesław” Spółka Akcyjna
 Address: ul. Kolejowa 37, 32-332 Bukowno, Poland
 Telephone/Fax number: +48 32 295 51 00/+48 32 295 50 00
 E-mail address for a competent person responsible for msds: biuro@theta-doradztwo.pl

1.4 Emergency telephone number

112, Factory dispatcher: +48 32 296 55 80 (on call 24h)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Product is not classified as hazardous for human health and life and for the environment.

2.2 Label elements

Hazard pictograms and signal words

None.

Hazard statements

None.

Precautionary statements

None.

2.3 Other hazards

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

zinc metallic

Range: 99,0-99,8%
 CAS number: 7440-66-6
 EINECS number: 231-175-3
 Registration number: 01-2119467174-37-0036
 Classification: not classified as hazardous



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aluminum metallic

Range: 0,2-1,0%
CAS number: 7429-90-5
EINECS number: 231-072-3
Registration number: -
Classification: not classified as hazardous

Section 4: First aid measures

4.1 Description of first aid measures

General observations: at room temperature (apart from mechanical hazards), the metallic alloy does not pose a threat to human health and life.

Skin contact: wash out skin with plenty of water with soap. If irritation appears, consult a doctor. In case of contact with hot melt, cool the burned skin with plenty of cold water. Put a sterile dressing and seek medical advice.

Eye contact: wash out eyes with plenty of water with the eyelid hold wide open, for at least 10-15 min. Remove any contact lenses. Obtain medical attention if necessary. In the case of splashes in the eyes of hot melt, apply a sterile dressing and immediately contact an ophthalmologist.

Ingestion: exposure usually does not occur.

Inhalation: exposure usually does not occur. However, if you feel unwell, take the victim to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

As a result of direct contact with a metallic alloy, adverse health effects are not observed. During the careless penetration there is a possibility of liquid alloy splashing with surface wet, dipping of cold packages, ingots. Contact with hot product may cause thermal burns.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: metallic alloy is not flammable. Use extinguishing measures that are appropriate to the environment.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During combustion, product may release toxic gases containing aluminum oxides, manganese oxides and other unidentified thermal decomposition products. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Collect used extinguishing agents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of release of large amounts of the mixture, it is necessary to take appropriate steps to prevent it from spreading into the environment. In the event of release of hot melt, use appropriate personal protective equipment.



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6.2 Environmental precautions

In case of release of large amounts of the mixture, it is necessary to take appropriate steps to prevent it from spreading into the environment. Do not let the mixture to get through the surface or ground water, soil, sewage system, wells, basements etc. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect the product mechanically. Treat the collected material as waste or dispose of it for reuse.

6.4 Reference to other sections

Appropriate conduct with waste product – section 13. Appropriate personal protective equipment – section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Ensure adequate ventilation. Before break and after work wash carefully hands. Use appropriate personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in dry and well-ventilated place. Protect against fire sources, water and moisture. Keep away from inorganic acids and bases.

7.3 Specific end use(s)

In galvanising industry the material is used for unit hot galvanising of steel and cast iron products.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Product does not contain any components with occupational exposure limit values at working place established in the European Union. Please check also any national occupational exposure limit values in your country.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU.

DNEL values for zinc [CAS 7440-66-6]

Exposure way	Exposure scheme	DNEL (workers)
inhalation	Long-term systemic effects	5 mg/m ³
dermal	Long-term systemic effects	83 mg/kg bw/d
Exposure way	Exposure scheme	DNEL (general population)
inhalation	Long-term systemic effects	2,5 mg/m ³
dermal	Long-term systemic effects	83 mg/kg bw/d
oral	Long-term systemic effects	0,83 mg/kg bw/d

PNEC values for zinc [CAS 7440-66-6]

PNEC	Value	Factor
freshwater	20,6 µg/l	1
marine water	6,1 µg/l	1
freshwater sediment	117,8 mg/kg dry weight	1
marine water sediment	56,5 mg/kg dry weight	1
soil	35,6 mg/kg dry weight	1
STP	100 µg/l	1



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8.2. Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. When handlings do not eat, drink or smoke. Before break and after work carefully wash hands. Ensure adequate generally ventilation and/or locally.

Hand and body protection

Normally not required.

Eye protection

Normally not required.

Respiratory protection

Normally not required.

The above information relating to personal protective equipment for the case of contact with alloy in metallic form, which does not pose a direct threat to their health. The use of plant protection (gloves, protective clothing or masks) is necessary in the case of contact with emerging opportunities in industrial processes zinc compounds, the product being processed or during processing. You should also take into account the possibility of mechanical or thermal hazards during the processing of metallic alloy. Selection of PPE should be based on the use of product.

Applied personal protective equipment must comply with the requirements of the Regulation 2016/425/EU. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.

Environmental exposure controls

Do not allow the mixture to contaminate surface water/ground water.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state/form:	solid
colour:	silver-white
odour:	odourless
odour threshold:	not determined
pH:	not applicable
melting point/freezing point:	ca. 410°C ± 10°C
initial boiling point and boiling range:	ca. 905°C ± 5°C
flash point:	not applicable
evaporation rate:	not applicable
flammability (solid, gas):	not flammable
upper/lower flammability or explosive limits:	not applicable
vapour pressure:	not applicable
relative vapour density:	not applicable
vapour density:	not applicable
density (25°C):	7,14 g/cm ³
solubility(ies) (20°C):	insoluble in water; soluble in inorganic acids, bases
partition coefficient: n-octanol/water:	not applicable
auto-ignition temperature:	not self-ignition
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not display
viscosity:	not applicable

9.2 Other information

No additional data.



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Section 10: Stability and reactivity

10.1 Reactivity

Product is reactive. See also subsection 10.3.-10.5.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

Avoid moisture, excessive heating, high temperatures.

10.5 Incompatible materials

Inorganics acids, bases.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

As a result of direct contact with a metallic alloy, adverse health effects are not observed. During the careless penetration there is a possibility of liquid alloy splashing with surface wet, dipping of cold packages, ingots. Contact with hot product may cause thermal burns.

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1 Toxicity

Mixture is not classified as dangerous for environment.



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12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

It shows no potential for bioaccumulation.

12.4 Mobility in soil

This product is not mobile in soil; does not dissolve in water and does not spread in the aquatic environment.

12.5 Results of PBT and vPvB assessment

Mixture does not meet the PBT or vPvB criteria.

12.6 Other adverse effects

This product has no influence on the global warming or the ozone layer depletion.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the mixture: disposed of in accordance with applicable regulations. Do not remove with household waste. Residues stored in their original containers. Recycle or re-processed. Waste code should be assigned in place of formation.

Disposal methods for used packing: metallic alloy of zinc and aluminium does not have individual packages.
Legal basis: Directive 2008/98/EC as amended, European Parliament and Council Directive 94/62/EC as amended

Section 14: Transport information

14.1 UN number

Not applicable, product is not classified as hazardous for air, sea and land transport.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.



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Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Regulation (EU) No 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

15.2 Chemical safety assessment

It is not necessary to prepare Chemical Safety Report for mixture.

Section 16: Other information

Clarification of aberrations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
PNEC	Predicted no effect concentration
DNEL	Derived no-effect level

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data

This sheet was prepared on the basis of on manufacturer's data, literature data, online databases, our knowledge and experience, taking into account the current legislation.

Other data

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Changes:	sections: 1-16
Safety Data Sheet made by:	„THETA” Doradztwo Techniczne

This SDS annuls and replaces all previous versions

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.