

SAFETY DATA SHEET

according to Regulation (EC) No 1272/2008

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

1.1. Product identifier

Trade name: InnoMetal AQUA Binder

Other names: -

MSDS name: EN_InnoMetal_MSDS_ AQUA Binder

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

1.2.1. Application of the substance / the mixture

Additional component

1.2.2. Applications advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

InnoMetal GmbH

Einsteinstr. 12

D-33104 Paderborn

Fon: +49 (0)221 9582011

info@lnnometal.de

1.4. Emergency telephone number

Monday – Friday, 9:00 am - 4:00 pm

+49 (0)221 958 2011

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not applicable.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not applicable.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is not classified and labelled according to the CLP regulation.

Not applicable.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components:

| CAS | EINECS | Chemical name | from % | till % | Hazard pictograms | R phrases | Index Number |
|----------|-----------|------------------------|--------|--------|-------------------|------------------|--------------|
| 872-50-4 | 212-828-1 | N-Methyl-2-pyrrolidone | < | 0.5 | Xi | 36/37/38, 61 | 606-021-00-7 |
| 121-44-8 | 204-469-4 | Triethylamine | < | 0.1 | F, C | 11, 20/21/22, 35 | 612-004-00-5 |

Labelling (CLP):

| CAS | EINECS | Chemical name | Hazard pictograms | Signal word | Hazard statements |
|----------|-----------|------------------------|---------------------|-------------|------------------------------|
| 872-50-4 | 212-828-1 | N-Methyl-2-pyrrolidone | GHS07, GHS08 | Danger | H360D, H319, H335, H315 |
| 121-44-8 | 204-469-4 | Triethylamine | GHS02, GHS05, GHS06 | Danger | H225, H331, H311, H302, H314 |

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Rinse skin with water/shower.

Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist consult doctor.

After swallowing: If symptoms persist consult doctor.

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

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Special powder

Dry sand

Water

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear recommended body protection.

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Collect the material and put it into an appropriate container.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Prevent formation of dust. Keep containers closed. Don't store at temperatures above 30 °C.

Information about fire and explosion protection: No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials.

Further information about storage conditions: None.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Not applicable.

8.2. Exposure controls

Respiratory protection: Suitable respiratory protective device recommended.

Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended in case of repetitive contact.



Protective gloves

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing recommended but not mandatory.

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid

Odour: characteristic

PH-value: 8.0

Density at 20 °C: 1.1 g/cm³

Solubility in / Miscibility with water: soluble.

Partition coefficient (n-Octanol/water): Not applicable

Viscosity: Not applicable.

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition if used and stored according to specifications. Avoid heat and frost.

10.3. Possibility of hazardous reactions

Strong acids

10.4. Conditions to avoid

Heat

Frost

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No information available.

SECTION 12: Ecological information

12.1. Toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bio-accumulative potential

Do not allow product to reach ground water, water course or sewage system.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation

Contact manufacturer for recycling information.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste Codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1. UN number

ADR, IMDG, IATA: Not applicable.

14.2. UN proper shipping name

ADR: Not applicable.

IMDG, IATA: Not applicable.

14.3. Transport hazard class(es)

ADR: Not applicable.

Class: Not applicable.

Label: Not applicable.

IMDG, IATA: Not applicable.

Class: Not applicable.

14.4. Packing group

ADR, IMDG, IATA: Not applicable.

14.5. Environmental hazards

Marine pollutant: no.

14.6. Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler): Not applicable.

EMS number: Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

SECTION 15: Regulatory information

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

The substance is not subject to classification according to EU lists and other sources of literature known to us.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1. Wording of R und H phrases

Relevant phrases

(serves as the explanation for only the hazard and risk phrases noted in the MSDS, e.g. in chapter 3)

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H360D: May damage the unborn child.

R11: Highly flammable

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R35: Causes severe burns

R36/37/38: Irritating to eyes, respiratory system and skin

R61: May cause harm to the unborn child

16.2. Further information

The information provided in this material safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.