

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 1

Revision: 02.09.2015

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

1.1 Product identifierTrade name: **AMAGRIT****1.2 Relevant identified uses of the substance or mixture and uses advised against***No further relevant information available.***Application of the substance / the mixture** *blasting agent***1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

ERVIN GERMANY GmbH

Auf dem Bruch 11

D – 45549 Sprockhövel

Phone: 0049 – (0)2324 / 9022244

Fax: 0049 – (0)2324 / 597788

<http://www.ervin.eu>email: info@ervin.eu**Further information obtainable from:**

Quality Assurance Department

(Mo-Do: 8:00 - 16:00, Fr: 08:00 - 13:00)

1.4 Emergency telephone number: 0049 – (0)2324 / 9022244

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008***The product is not classified according to the CLP regulation.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008** *Void***Hazard pictograms** *Void***Signal word** *Void***Hazard statements** *Void***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**Description:** *Mixture: consisting of the following components.***Dangerous components:**

CAS: 7440-47-3 EINECS: 231-157-5	chromium	substance with a Community workplace exposure limit	<35%
CAS: 7440-44-0 EINECS: 231-153-3	carbon	substance with a Community workplace exposure limit	<5%
CAS: 7439-96-5 EINECS: 231-105-1	manganese		<5%
CAS: 7440-21-3 EINECS: 231-130-8	silicon	substance with a Community workplace exposure limit	<5%
CAS: 7439-89-6 EINECS: 231-096-4	iron		50-100%

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:** *Take affected persons out into the fresh air.*

(Contd. on page 2)

— GB —

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 1

Revision: 02.09.2015

Trade name: AMAGRIT

(Contd. of page 1)

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

After skin contact:

Rinse with warm water.

Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed irritation caused by dusts.

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: CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Product forms slippery surface when combined with water.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Only handle and refill product in closed systems.

Provide suction extractors if dust is formed.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

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: No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Further information about storage conditions: Store in dry conditions.

Storage class: 13

7.3 Specific end use(s) No further relevant information available.

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 1

Revision: 02.09.2015

Trade name: AMAGRIT

(Contd. of page 2)

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: *No further data; see item 7.*

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

7440-47-3 chromium

WEL Long-term value: 0.5 mg/m³

7440-44-0 carbon

WEL Long-term value: 10* 4** mg/m³
*inhalable dust **respirable

7440-21-3 silicon

WEL Long-term value: 10* 4** mg/m³
*inhalable dust **respirable dust

Regulatory information WEL: EH40/2011

Recommended monitoring procedures according to Regulation 453/2010/EC no. 8.1.2:

7440-47-3 chromium: ISO 15202 workspace air (E,F), BIA 6645 (D), MTA/MA-025/A92 (ESP)

Additional information: *The lists valid during the making were used as basis.*

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Filter P2

Protection of hands:

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Natural rubber, NR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: ≥ 0.33 mm

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Value for the permeation: Level ≤ 6

Eye protection:



Tightly sealed goggles

Body protection: *Protective work clothing*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Solid
Colour:	Silver grey
Odour:	Odourless
Odour threshold:	Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: 1400 - 1550 °C (2552 - 2822 °F)

(Contd. on page 4)

— GB —

Safety data sheet

according to 1907/2006/EC, Article 31 and 453/2010/EC

Printing date 06.09.2015

Version number 1

Revision: 02.09.2015

Trade name: AMAGRIT

(Contd. of page 3)

Boiling point/Boiling range:	<i>Undetermined.</i>
Flash point:	<i>Not applicable.</i>
Flammability (solid, gaseous):	<i>Not determined.</i>
Ignition temperature:	
Decomposition temperature:	<i>Not determined.</i>
Self-igniting:	<i>Product is not selfigniting.</i>
Danger of explosion:	<i>Product does not present an explosion hazard.</i>
Explosion limits:	
Lower:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>
Vapour pressure:	<i>Not applicable.</i>
Density at 20 °C (68 °F):	<i>7.9 g/cm³ (65.926 lbs/gal)</i>
Relative density	<i>Not determined.</i>
Vapour density	<i>Not applicable.</i>
Evaporation rate	<i>Not applicable.</i>
Solubility in / Miscibility with water:	<i>Insoluble.</i>
Partition coefficient (n-octanol/water): <i>Not determined.</i>	
Viscosity:	
Dynamic:	<i>Not applicable.</i>
Kinematic:	<i>Not applicable.</i>
Solvent content:	
Organic solvents:	<i>0.0 %</i>
VOC (EC)	<i>0.00 %</i>
Solids content:	<i>100.0 %</i>
9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

10.1 Reactivity *No further relevant information available.*

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: *No decomposition if used according to specifications.*

10.3 Possibility of hazardous reactions *No dangerous reactions known.*

10.4 Conditions to avoid *No further relevant information available.*

10.5 Incompatible materials: *No further relevant information available.*

10.6 Hazardous decomposition products: *Toxic metal oxide smoke*

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect:

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.*

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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.*

(Contd. on page 5)

— GB —

Safety data sheet according to 1907/2006/EC, Article 31 and 453/2010/EC

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Version number 1

Revision: 02.09.2015

Trade name: AMAGRIT

(Contd. of page 4)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: 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.

European waste catalogue

unused material:

12 01 17: waste blasting material other than those mentioned in 12 01 16

used and contaminated material:

12 01 16*: waste blasting material containing dangerous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
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.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

(Contd. on page 6)

Safety data sheet
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(Contd. of page 5)

National regulations:**Information about limitation of use:** *Employment restrictions concerning juveniles must be observed.***Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.***15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact: *Dr. W. Assmann***Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative***Safety data sheet AMAGRIT**