



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)
and Regulation (EU) No 2015/830

Revision date: 3/7/2015
Version: 4
Language: en-GB,IE
Date of print: 28/7/2015

GRITTAL

Material number 0402

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

1.1 Product identifier

Trade name: GRITTAL

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

General use: As a blasting agent.
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: VULKAN INOX GmbH
Street/POB-No.: Gottwaldstraße 21
Postal Code, city: 45525 Hattingen
Germany
WWW: www.vulkan-inox.de
Telephone: +49 (0) 2324-5616 0
Telefax: +49 (0) 2324-53470
Dept. responsible for information:
Rolf Wiele,
Telephone: +49 (0) 2324-5616 22, E-mail Rolf.Wiele@vulkan-inox.de

1.4 Emergency telephone number

Telephone: +49 (0) 2324-5616 22
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)
This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable
Precautionary statements:
P260 Do not breathe dust.

2.3 Other hazards

For machine processing: Dusts, vapours.
Harmful by inhalation.



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SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Chromium-alloy

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 231-096-4 CAS 7439-89-6	Iron	>= 50 %	not applicable
EC No. 231-157-5 CAS 7440-47-3	Chromium	< 35 %	not applicable
EC No. 231-153-3 CAS 7440-44-0	Carbon	< 5 %	not applicable
REACH 01-2119449803-34-xxxx EC No. 231-105-1 CAS 7439-96-5	Manganese	< 3 %	not applicable
EC No. 231-130-8 CAS 7440-21-3	Silicon	< 3 %	not applicable

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.
- Following skin contact: Thoroughly wash skin with soap and water. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water. Consult physician.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Dusts, vapours: irritant.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Sand, Special extinguishing powder for metals

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire: Toxic metal oxide smoke



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5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Additional information: Hazchem-Code: -

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear protective equipment. Avoid generation of dust. Do not breathe dust.

Avoid contact with skin and eyes.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Dispose of in accordance with the regulations or material recycling. Do not use air pressure.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: The substance should only be handled in closed apparatus or systems.

Provide adequate ventilation, and local exhaust as needed.

Do not breathe dust. Wear protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container dry.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Do not store together with acids.

Storage class: 11 = Combustible solids

7.3 Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7440-47-3	Chromium	Europe: IOELV: TWA	2 mg/m ³ (Chromium, anorg. CrII and CrIII compounds, insoluble)
		Great Britain: WEL-TWA	0.5 mg/m ³
		Ireland: 8 hours	2 mg/m ³
7440-44-0	Carbon	Great Britain: WEL-TWA	10 mg/m ³ (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m ³ (respirable fraction)
		Ireland: 8 hours	10 mg/m ³ (inhalable fraction)
		Ireland: 8 hours	4 mg/m ³ (respirable fraction)
7439-96-5	Manganese	Great Britain: WEL-TWA	0.5 mg/m ³ Manganese and its inorganic compounds (as Mn)
		Ireland: 15 minutes	3 mg/m ³ Manganese, Smoke
		Ireland: 8 hours	0.2 mg/m ³ (Manganese and compounds)
		Ireland: 8 hours	0.2 mg/m ³ Manganese, Smoke
7440-21-3	Silicon	Great Britain: WEL-TWA	10 mg/m ³ (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m ³ (respirable fraction)
		Ireland: 8 hours	10 mg/m ³ (inhalable fraction)
		Ireland: 8 hours	4 mg/m ³ (respirable fraction)

Additional information: Limiting values are only defined for the above-mentioned material, whereas no such limits have been established for alloys made out of it.

8.2 Exposure controls

The substance should only be handled in closed apparatus or systems.
Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.
Use filter type FFP2 according to EN 14387.

Hand protection: protective gloves according to EN 374.
Glove material: Nitrile rubber-Breakthrough time: > 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
When using do not eat, drink or smoke.
Do not breathe dust. Do not breathe vapours.
Avoid contact with skin and eyes.
Wash hands before breaks and after work.
Eye wash facility must be provided.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Form: solid, powder Colour: metallic silver grey
Odour:	odourless
Odour threshold:	no data available
pH value:	no data available
Melting point/freezing point:	1400 - 1550 °C
Initial boiling point and boiling range:	no data available
Flash point/flash point range:	no data available
Evaporation rate:	no data available
Flammability:	no data available
Explosion limits:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Density:	at 20 °C: 7.7 - 8.1 g/cm ³
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	no data available
Viscosity, kinematic:	no data available
Explosive properties:	no data available
Oxidizing characteristics:	no data available

9.2 Other information

Additional information: no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

With exposure to acids, product will release hydrogen.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

acids



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10.6 Hazardous decomposition products

Can be released in case of fire: Toxic metal oxide smoke
Thermal decomposition: no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Lack of data.
Eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Symptoms

In case of inhalation: For machine processing: Dusts, vapours.
Harmful by inhalation.
After eye contact: Dusts, vapours (For machine processing): irritant

SECTION 12: Ecological information

12.1 Toxicity

Further details: no data available

12.2. Persistence and degradability

Further details: Methods for the determination of biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available



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12.6 Other adverse effects

General information: Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 12 01 17 = Wastes from shaping and physical and mechanical surface treatment of metals and plastics

Recommendation: Material recycling.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Non-contaminated packages may be recycled.
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:
not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:
not applicable

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available



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SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -
No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Reason of change: General revision (Regulation (EU) No 2015/830)
Date of first version: 26/5/2009

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.