



Go ahead

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

**CHRONITAL 13**  
Material number 0406

Revision date: 1/4/2018  
Version: 5  
Language: en-GB,IE

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

### 1.1 Product identifier

Trade name:

**CHRONITAL 13**

General use:

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

As a blasting agent.  
For industrial purposes only

Company name:

### 1.3 Details of the supplier of the safety data sheet

**VULKAN INOX GmbH**

Street/POB-No.:

**Gottwaldstraße 21**

Postal Code, city:

**D-45525 Hattingen  
Germany**

World Wide Web:

**www.vulkan-inox.de**

Telephone/Telefax:

**+49 (0) 2324-5616 0  
+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.



Go ahead

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**SECTION 3: Composition / information on ingredients**

**3.1 Substances: not applicable**

**3.2 Mixtures**

Ingredients:

Ingredient	Designation	Content	Classification
EC No. 231-096-4 CAS 7439-89-6	Iron	65-75 %	not applicable
EC No. 231-157-5 CAS 7440-47-3	Chromium	< 20%	not applicable
EC No. 231-111-4 CAS 7440-02-0	Nickel	< 15 %	Skin Sens. 1; H317. Carc. 2; H351. STOT RE 1; H372.
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
EC No. 231-153-3 CAS 7440-44-0	Carbon	< 0,2 %	not applicable
Full text of H- and EUH-statements: see section 16.			not applicable

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

After inhalation:

Remove the casualty into fresh air and keep him calm.  
Seek medical treatment in case of troubles.

In case of skin contact:

Immediately clean with water and soap followed by thorough rinsing.  
In case of skin irritation, consult a physician.

After eye contact:

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding apart. Consult an ophthalmologist.

After swallowing:

Rinse mouth with water. Consult physician.  
Never give anything by mouth to an unconscious person.

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

Sensitising. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptomatically.



Go ahead

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## 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

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Additional information:

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

Avoid exposure. Provide adequate ventilation. Avoid generation of dust.

Do not breathe dust. Wear protective equipment.

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.

Additional information:

Particular danger of slipping when spread on the ground.

### 6.4 Reference to other sections

Refer additionally to chapter 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling:

Avoid exposure - obtain special instructions before use.

The substance should only be handled in closed apparatus or systems.

Provide adequate ventilation, and local exhaust as needed.

Vapours / Dust should be exhausted directly at the point of origin.

Do not breathe dust. Wear protective equipment.

Avoid contact with skin and eyes.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container dry.

Hints on joint storage:

Maintain air gap between stacks/pallets.

Keep away from food, drink and animal feeding stuffs.

Do not store together with acids.

Storage class:

11 Combustible solids

### 7.3 Specific end use(s)

As a blasting agent.



Go ahead

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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 <sup>3</sup> (Chromium, anorg. CrII and CrIII compounds, insoluble)
		Great Britain: WEL-TWA	0,5 mg/m <sup>3</sup>
		Ireland: 8 hours	2 mg/m <sup>3</sup>
7440-02-0	Nickel	Great Britain: WEL-TWA	0,5 mg/m <sup>3</sup>
		Ireland: 8 hours	0,5 mg/m <sup>3</sup>
7439-96-5	Manganese	Great Britain: WEL-TWA	0,5 mg/m <sup>3</sup> Manganese and its inorganic compounds (as Mn)
		Ireland: 15 minutes	3 mg/m <sup>3</sup> Manganese, Smoke
		Ireland: 8 hours	0.2 mg/m <sup>3</sup> ( Manganese and compour
		Ireland: 8 hours	0.2 mg/m <sup>3</sup> Manganese, Smoke
7440-21-3	Silicon	Great Britain: WEL-TWA	10 mg/m <sup>3</sup> (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m <sup>3</sup> (respirable fraction)
		Ireland: 8 hours	10 mg/m <sup>3</sup> (inhalable fraction)
		Ireland: 8 hours	4 mg/m <sup>3</sup> (respirable fraction)
7439-96-5	Carbon	Great Britain: WEL-TWA	10 mg/m <sup>3</sup> (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m <sup>3</sup> (respirable fraction)
		Ireland: 8 hours	10 mg/m <sup>3</sup> (inhalable fraction)
		Ireland: 8 hours	4 mg/m <sup>3</sup> (respirable fraction)

Additional information:

Limiting values are only defined for the above-mentioned material, whereas no such limit 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.  
Vapours / Dust should be exhausted directly at the point of origin.

**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.  
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:

Obtain special instructions before use.  
When using do not eat, drink or smoke.  
Do not breathe dust. Avoid contact with the substance.  
Wash hands before breaks and after work.  
Eye wash facility must be provided.



Go ahead

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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
Explosive properties:	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 <sup>3</sup>
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Explosive properties:	no data available
Oxidizing characteristics:	no data available
Bulk density:	approx. 4700 kg/m <sup>3</sup>

### 9.2 Other information



Go ahead

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## 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

### 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

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of

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.

After inhalation:

For machine processing: Dusts, vapours.

Harmful by inhalation.

After eye contact:

Dusts, vapours (For machine processing): irritant



Go ahead

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## 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

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 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

not applicable

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA: Not restricted

### 14.3 Transport hazard class(es)

not applicable

### 14.4 Packing group

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



Go ahead

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## SECTION 15: Regulatory information

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

Hazchem-Code: -

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

### Further information

General revision (Regulation (EU) No 2015/830)

Date of first version:

26.05.2009

### 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.