



## EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

### CHRONITAL

Material number 0401

Date of print: 13.12.2010

Revision date: 07.02.2011

Date of first version: 26.05.2009

## 1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Name of product: **CHRONITAL**

Use of the substance/preparation

As a blasting agent.

Company/undertaking identification

Company name: **VULKAN INOX GmbH**

Street/POB-No.: **Gottwaldstraße 21**

State/city /postal code: **D-45525 Hattingen**

World Wide Web: **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 - 0, E-mail Rolf.Wiele@vulkan-inox.de

## 2. Hazards identification

Emergency overview

Physical state: solid, powder

Color: metallic silver gray

Odor: odorless

the non-used product is not hazardous. In the mechanical application (Blasting equipment) can occur dusts and fumes. Usual precautionary measures should be taken. The legal limits for dust and damp-Fe are observed. Material must only be handled in closed installations or systems. Vapors / Dust should be vacuumed up immediately at the place it occurs. Particular danger of slipping when spread on the ground.

## 3. Composition/information on ingredients

CAS-No.	Chemical name	Content	Classification
7439-89-6	Iron	65-75 %	-; H -
7440-47-3	Chromium	< 20 %	-; H -
7440-02-0	Nickel	< 10 %	H 317; H 351; H 372
7439-96-5	Manganese	< 3 %	-; H -
7440-21-3	Silicon	< 3 %	-; H -
7440-44-0	Carbon	< 0.2 %	-; H -

## 4. First aid measures

Following inhalation

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

After skin contact:

Immediately clean with water and soap followed by thorough rinsing.

In case of skin irritation, seek medical treatment.

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 with water. Consult physician.

## 5. Fire fighting measures

Auto flammability :

not self-igniting



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Suitable extinguishing media:

Sand, Special extinguishing powder for metals

Extinguishing media which must not be used for safety reasons:

Water

## 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Avoid generation of dust.

Do not breathe dust. Wear protective equipment.

Avoid contact with skin and eyes.

Environmental precautions:

Dumping into the environment must be prevented.

Methods for cleaning up:

Collect 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.

## 7. Handling and storage

Handling

Information for safe handling:

Material must only be handled in closed installations or systems.

Provide adequate ventilation, and local exhaust as needed.

Vapors / Dust should be vacuumed up immediately at the place it occurs. Do not breathe dust. Wear protective equipment. Avoid contact with skin and eyes.

Storage

Requirements for storerooms and containers:

Keep container dry.

Information about storage in one common storage facility:

Maintain air gap between stacks/pallets.

Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

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.

Engineering controls:

Material must only be handled in closed installations or systems.

Provide adequate ventilation, and local exhaust as needed.

Vapors / Dust should be vacuumed up immediately at the place it occurs.

See also information in chapter 7, section storage

Eye protection:

Tightly sealed safety glasses according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.

Skin protection:

Wear suitable protective clothing.

protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Personal protection equipment:

Respiratory protection:



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In the case of dust or aerosol formation use respirator with an approved filter.  
Combination filter FFP2 according to EN 141.

General protection and hygiene measures:

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.

## 9. Physical and chemical properties

Appearance

Physical state: solid, powder

Color: metallic silver gray

Odor: odorless

Melting point / melting range: 2552 - 2822 °F

Autoflammability: not self-igniting

Density: at 68 °F: 7.7-8.1 g/cm<sup>3</sup>

Package density: approx. 4700 kg/m<sup>3</sup>

Solubility in water: insoluble

## 10. Important health, safety and environmental information

Chemical stability

Product is stable under normal storage conditions.

Materials to avoid:

acids

Hazardous decomposition products:

With exposure to acids, product will release hydrogen.

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

## 11. Toxicological information

Toxicological Tests:

Following inhalation:

Quantitative data on the toxicity of this product are not available. Because of the morphological characteristics are, if properly handled and used to expect dangerous properties of.

After eye contact:

sensitizing

## 12. Ecological information

Details of elimination

Further details:

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

Additional ecological information

Volatile organic compounds (VOC): 0 % by weight

General information: Dumping into the environment must be prevented.

## 13. Disposal considerations

Product

Recommendation: Material recycling.

Contaminated packaging



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Recommendation: Cleaned containers may be recycled.

Waste disposal according to official state regulations.

### 14. Transport information

USA: Department of Transportation (DOT)

Proper Shipping Name Not controlled under DOT.

Transport by sea (IMDG)

Proper shipping name: Not restricted

Air transport (IATA)

Proper shipping name: Not restricted

Overland transport (ADR/RID)

Proper shipping name: Not restricted

Canada: Transportation of Dangerous Goods (TDG)

Shipping Name: Not controlled under TDG.

Additional information

Not a hazardous material with respect to transportation regulations.

### 15. Regulatory information

Labeling 67/548/EWG oder 1999/45/EG):

No labeling

R phrase(s):

No

S phrase(s):

No

National regulations

### 16. Other information

Full text of R phrases mentioned in Section 2

H 351 Limited evidence of a carcinogenic effect.

H 372 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Reason of change: General revision

Group that issues data sheet

Contact person: see chapter 1, department responsible for information.

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