



EU SAFETY DATA SHEET CHRONITAL 13

according to Regulation (EC) No. 1907/2006 (REACH) Material number 0401

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

Identification of the substance or preparation

Name of product: CHRONITAL 13

Use of the substance / preparation

As a blasting agent.

Company / undertaking identification

Company name: VULKAN INOX GmbH

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State/city/postal code: D-45525 Hattingen

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Dept. responsible for information:

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Emergency telephone

Telephone: +49 (0) 2324-5616 22

This number is serviced during office hours.

2. Hazards identification

Classification

Product is classified and labelled in accordance with Directive 1999/45/EC as amended.

Xn harmful

Carc. Cat. 3; R40 Limited evidence of a carcinogenic effect.

Sens.; R43 May cause sensitization by skin contact.

Xn; R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

3. Composition/information on ingredients

Dangerous ingredients:

CAS-No. EINECS / ELINCS Chemical name Content Classification

7439-89-6 231-096-4 Iron 65-75 % -; R -

7440-47-3 231-157-5 Chromium <= 20 % -; R -

7440-02-0 231-111-4 Nickel <= 13 % T; Carc.Cat.3; R 40, 43, 48/23

7439-96-5 231-105-1 Manganese <= 3 % -; R -

7440-21-3 231-130-8 Silicon <= 3 % -; R -

7440-44-0 231-153-3 Carbon <= 0,2 % -; R -

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: Thoroughly wash skin with soap and water. 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 immediately and drink large quantities of water. Consult physician.



5. Fire fighting measures

Suitable extinguishing media:

Sand, Special extinguishing powder for metals

Extinguishing media which must not be used for safety reasons:

Water

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid generation of dust. Do not breathe dust.

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. Do not breathe dust. Wear suitable protective clothing.

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.

Storage class: 13

8. Exposure controls/Personal protection equipment

Exposure limit values

CAS-No. Chemical name Type Value

7440-47-3 Chromium Great Britain: WEL-TWA 1 mg/m³

Europe, IOELV: TWA 2 mg/m³

7440-02-0 Nickel Great Britain: WEL-TWA 0,5 mg/m³

7439-96-5 Manganese Great Britain: WEL-TWA 0,5 mg/m³

Great Britain: WEL-TWA (fume) 1 mg/m³

Great Britain: WEL-TWA (fume) 1 mg/m³

Great Britain: WEL-STEL (fume) 3 mg/m³

7440-44-0 Carbon Great Britain: WEL-TWA (respirable dust) 4 mg/m³

Great Britain: WEL-TWA (total inhalable dust) 10 mg/m³

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.

Please observe generally defined limit for dust:

TWA Great Britain: 10 mg/m³ (inhalable dust)

TWA Great Britain: 4 mg/m³ (respirable dust)

Exposure controls

Material must only be handled in closed installations or systems.

Provide adequate ventilation, and local exhaust as needed.

See also information in chapter 7, section storage.

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

Combination filter FFP2 according to EN 141.

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 safety glasses according to EN 166.

Skin protection: Wear suitable protective clothing.

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 at the end of work.
Eye wash facility must be provided.

9. Physical and chemical properties

Appearance

Physical state: solid, powder
Colour: metallic silver grey
Odour: odourless

Important health, safety and environmental information

Melting point / melting range 1400 - 1550 °C
Autoflammability: not self-igniting
Density: at 20 °C: 7,7-8,1 g/cm³
Package density: approx. 4700 kg/m³
Solubility in water: insoluble

10. Stability and reactivity

Materials to avoid: acids
Hazardous decomposition products:
With exposure to acids, product will release hydrogen.
Additional information: Product is stable under normal storage conditions.

11. Toxicological information

Toxicological Tests:

Following inhalation: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
After skin contact: May cause sensitization by skin contact.
After eye contact: sensitizing
Carcinogenic, germ cell mutagen and reproduction effects
Carc. Cat. 3 - Limited evidence of a carcinogenic effect.

12. Ecological information

Ecotoxicity

Water Hazard Class: nwg = not a water pollutant

Details of elimination

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

Additional ecological information

General information: Dumping into the environment must be prevented.

13. Disposal considerations

Product

Waste key number 120116* = Waste blasting material containing dangerous substances
* = Evidence for disposal must be provided.

Recommendation: Material recycling.

Contaminated packaging

Waste key number 150102 = Plastic packaging
Recommendation: Cleaned containers may be recycled.
Waste disposal according to official state regulations.

14. Transport information

Overland transport (ADR/RID)

Product designation: Not restricted

Transport by sea (IMDG)

Proper shipping name: Not restricted

Air transport (IATA)

Proper shipping name: Not restricted

Additional information

Not a hazardous material with respect to transportation regulations.



Go ahead

15. Regulatory information

Classification

Code letter and hazard symbol:

Xn

harmful

R phrase(s): R 40 Limited evidence of a carcinogenic effect.

R 43 May cause sensitization by skin contact.

R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

S phrase(s): S 2 Keep out of the reach of children.

S 13 Keep away from food, drink and animal feedingstuffs.

S 22 Do not breathe dust.

S 36/37 Wear suitable protective clothing and gloves.

Text for labelling contains Nickel

National regulations

National regulations - Germany

Storage class: 13

Water Hazard Class: nwg = not a water pollutant

Informations on working limitations:

Observe employment restrictions concerning young persons.

National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

16. Other information

Further remarks

R phrase(s): R 40 = Limited evidence of a carcinogenic effect.

R 43 = May cause sensitization by skin contact.

R 48/20 = Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 48/23 = Toxic: danger of serious damage to health by prolonged exposure through inhalation.

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 the legal

warranty regulations.