

STELUX C, STELUX CN

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

1.1 Product identifier

Identifier : mixture

Designation : stainless steel blasting media

Trade name : STELUX C, STELUX CN

1.2 Relevant identified uses of the mixture and uses advised against

1.2.1 Relevant identified uses

Main use category: industrial purpose

Identified use: blasting operation

1.2.2 Uses advised against

No further information available

1.3 Detail of the supplier of the Safety Data Sheet

Address :

e-mail : xxx@winoagroup.com

Telephone :

1.4 Emergency telephone number

| Country | Organisation | Address | Phone, e-mail, website |
|---------|--------------|---------|------------------------|
| | | | |

SECTION 2: Hazards identification

2.1 Classification of the substance or the mixture

Classification based on relevant data available for the mixture

Not classified

2.2 Label elements

No label

2.3 Other hazards

Risks are dependent upon the user's process and application. Health risks are linked to the exposure to dust. Dust is produced by the fragmentation of the abrasives and particles removed from the blasted parts.

Health hazard : Dust may cause mechanical irritation of the eyes and respiratory tract.
 Fire - Explosion : Dust can form an explosive mixture with air.
 Other risks : Noise. Risk of falling due to the presence of abrasives on the floor.

SECTION 3: Composition/informations on ingredients

3.1 Substances

Not applicable

3.2 Mixture

| Designation | Identifier | % | Classification according regulation (EC) N° 1272/2008 [CLP] |
|-------------|---|---------|---|
| Iron | (N° CAS) 7439-89-6 (N° CE) 231-096-4 | 60 - 70 | Not classified |
| Chromium | (N° CAS) 7440-47-3 (N° CE) 231-157-5 | 15 - 19 | Not classified |
| Nickel | (N° CAS) 7440-02-0 (N° CE) 231-111-4 | 1 - 10 | Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317 |
| Silicon | (N° CAS) 7440-21-3 (N° CE) 231-130-8 | <= 3,5 | Not classified |
| Carbon | (N° CAS) 7440-44-0 (N° CE) 231-153-3 | <= 0.25 | Not classified |
| Manganese | (N° CAS) 7439-96-5 (N° CE) 231-105-1 | <= 2 | Not classified |

Additional information:

The product is manufactured from melting of recovered scrap metal. Due to the scrap metal recovery process, other unintentionally added elements such as copper (Cu), may be present as impurities. The concentrations of these elements could in some case individually exceed 0.1% but do not lead to a global classification of the alloy.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information : In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Following inhalation : Remove person to fresh air and keep comfortable for breathing.

Following skin contact : If on skin, wash thoroughly with water after handling. If irritation occurs: get medical advice/attention

Following eye contact : Do not rub, wash thoroughly with water keeping eyelids wide open (at least 15 minutes). If irritation persists, consult an ophthalmologist.

Following ingestion : Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects : Dust may cause mechanical irritation of the eyes and respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Select media appropriate for the surrounding materials/area
In the event of Class A fires (packaging): ABC powder, water, foam
In the event of Class D fires (metal fire): powders, CO2

Unsuitable extinguishing agents : No further relevant information available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Metal oxides smoke, fumes or vapor. Carbon oxides (CO, CO2).

5.3 Advice for fire-fighters

Fire-fighting instructions : Dike and contain extinguishing fluids. Do not inhale the smoke

Fire-fighting protection: Do not intervene without suitable protective equipment.
Wear self-contained breathing apparatus and full body protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

General measures : Provide adequate ventilation. Steel abrasives on horizontal surfaces can create slip and fall hazards. It is recommended to keep floors, stairs and work areas clean at all time.

6.1.1 For non-emergency personnel

Emergency procedure : Mark the application area and prohibit access to unauthorized persons. Avoid contact with skin, eyes or clothing. Do not breathe dust. Response limited to qualified personnel with appropriate protection.

6.1.2 For emergency responders

Protective equipment: Use personal protective equipment, see section 8.

Emergency procedure: Prevent or limit the formation and dispersion of dust.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Cleaning up : Upon accidental release: quickly clean the area with a vacuum cleaner or magnetic brush to reduce the risk of falling. Prevent or limit the formation and dispersion of dust.

Other information : The material may be reused, recycled or disposed of in compliance with local regulations.

6.4 Reference to other sections

For more information, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling: Handle with care to avoid damage to packaging to avoid spillage. Use in well-ventilated area. Do not breath dust. Avoid contact with eye, skin, clothing.

General occupational hygiene : Do not drink, eat or smoke at the workplace. Wash hands after handling. Separate work clothes from street clothes. Clean them separately.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage : Winoa knows of no incompatible substance.
 Store in dry place. No safety risk but oxidation and aggregation may occur in the presence of moisture.

7.3 Specific end use(s)

No further relevant information available

SECTION 8: Exposure controls and personal protection

8.1 Control parameters

8.1.1 Occupational exposure Levels

| Dust | | |
|----------------------|---|--|
| France | Local name | Dust with no specific effect |
| France | Restrictive statutory limit values (mg/m ³) | 7 (inhalable fraction) (a) 3,5 (respirable fraction) (b) |
| France | Note | (a) values reduced to 4 mg/m ³ on 2023/07/01 (b) values reduced to 0,9 mg/m ³ on 2023/07/01 |
| Chromium (7440-47-3) | | |
| EU | Local name | Chromium metal |
| EU | IOELV TWA (mg/m ³) | 2 |
| EU | Note | SCOEL recommendation (2002) |

| Nickel (7440-02-0) | | |
|-----------------------|--------------------------------|--|
| EU | Local name | Nickel compounds |
| EU | BOELV TWA (mg/m ³) | 0,1 (inhalable fraction, up to January 2025) 0,05 (inhalable fraction, from 18/01/2025) 0,01 (respirable fraction) |
| EU | Regulation reference | Directive 2004/37/CE ; Directive 2022/431 |
| EU | Note | to be transposed into national law by 15/04/2024 by EU members |
| Manganese (7439-96-5) | | |
| EU | Nom local | Manganese |
| EU | IOELV TWA (mg/m ³) | 0,2 (inhalable fraction) 0,05 (respirable fraction) |
| EU | Regulation reference | Commission Directive (EU) 2017/164 |
| Silicon (7440-21-3) | | |
| France | Local name | Silicon |
| France | VME (mg/m ³) | 10 mg/m ³ |
| France | Note (FR) | Valeurs recommandées/admises |
| Copper (7440-50-8) | | |
| EU | Local name | Copper |
| EU | IOELV TWA (mg/m ³) | 0,01 (respirable fraction) |
| EU | Regulation reference | SCOEL Recommendations (2011) |

8.1.2 Biological limit values

| Chromium (7440-47-3) | | |
|-----------------------|------------|---|
| Germany | local name | chromium and its compounds |
| Germany | BAR | 0,6µg/L urine, at end of exposure |
| Germany | Notes | DFG recommendations 2018 |
| Nickel (7440-02-0) | | |
| EU | Local name | Nickel and nickel compounds |
| EU | BGV | 3 µg/L urine |
| EU | Notes | SCOEL Recommendations (2011) |
| Germany | local name | Nickel and its compounds |
| Germany | BAR | 3 µg/L urine, at end of exposure |
| Germany | Notes | DFG recommendations 2018 |
| Manganese (7439-96-5) | | |
| Germany | local name | Manganese and its inorganic compounds |
| Germany | BAR | 15 µg/L whole blood, at end of exposure |
| Germany | Notes | DFG recommendations 2018 |

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. The user must know the exact nature of the dust produced during the industrial process for which the abrasive is used, and must take the necessary measures to protect his workers. A metrological study is necessary for blasted parts that may contain any substance with an exposure limit. Emergency eye rinses should be installed in the vicinity of any area where there is a risk of exposure.

Hand protection:

Protective gloves against mechanical risks according to EN 388

Eye and face protection :

Tightly sealed goggles according to EN 166

Skin protection :

Wear suitable protective clothing according to EN ISO 14877

Respiratory protection :

Filter P2 according to EN 149

Environmental exposure controls :

Take all necessary measures to avoid the accidental release of the product outside, in case of rupture of containers or transfer systems.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state : | Solid; Massive metal alloy. |
| Color : | Varied shades/hues of grey. |
| Odor : | Odorless. |
| Melting range : | 1400 - 1550 °C (2552 – 2822 °F) |
| Freezing point : | No data available |
| Boiling range : | 2850 – 3150 °C (5162 – 5702 °F) |
| Flammability (solid, gaz) : | Non-flammable |
| Lower and upper explosion limit | Not applicable |
| Flash point : | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature: | No data available |
| pH : | Not applicable |
| Kinematic viscosity | Not applicable |
| Solubility(s) : | Water: Insoluble |
| Partition coefficient n-octanol/water : | Not applicable |
| Vapour pressure: | No data available |
| Density : | > 7,6 g/cm ³ |
| Bulk density : | 3 - 5 g/cm ³ |
| Relative vapour density : | Not applicable |
| Particles characteristics : | Diameter range 0.05 mm to 8 mm depending on grade |

9.2 Other information

9.2.1 Information with regard to physical hazard classes

| | |
|---|----------------------|
| <u>Explosion test</u> : EN 14034-1:2005 and EN 14034-2:2006 | <u>Results</u> |
| <u>Product tested</u> : high carbon steel blasting media | explosion class St=0 |
| <u>Particles size</u> : 100% below 355µm ; 96% above 63µm | |

9.2.2 Other safety characteristics

Formation of explosive dust/air mixture:

Dust is produced by the fragmentation of the abrasives and particles removed from the blasted parts.
Risks are dependent upon the user's process and application.

| | |
|---|---|
| <u>Explosion test</u> : EN 14034-1:2005 and EN 14034-2:2006 | <u>Results</u> |
| <u>Product tested</u> : dust recovered after crushing of the high carbon steel blasting media | Kst = 13 m.bar/s with Pmax of 2.3bar. Explosion class St 1 |
| <u>Particles size</u> : 100% below 315µm ; 90% below 63µm. | |

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable under normal conditions of storage and handling.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Water. Humidity.

10.5 Incompatible materials

Acids.

10.6 Hazardous decomposition products

No hazardous decomposition products under normal storage and uses conditions. Toxic metal oxide smoke can be released in case of fire.

SECTION 11: Toxicological information

11.1 Information on toxicological effects as defined in the regulation (EU) 1272/2008

| | |
|---|---|
| <u>Acute toxicity (oral)</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Acute toxicity (dermal)</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Acute toxicity (inhalation)</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Skin corrosion/irritation</u> | Not classified (Based on available data, the classification criteria are not met) pH: Not applicable |
| <u>Eye damage/irritation</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Skin sensitisation or to the respiratory tract</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Additional indications</u> | Based on available data. The release rate of nickel is low <0,5 µg/cm ² /week, the sensitisation induced by stainless steel can be considered as unlikely. |
| <u>Germ cell mutagenicity/Genotoxicity</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Carcinogenicity</u> | Non classé. (Based on available data. Etude sur la toxicité de l'acier inoxydable - FINNISH INSTITUTE OF OCCUPATIONAL HEALTH - 2010. (méthode OCDE 451). Determination by expert opinion and probative force) |
| <u>Reproductive toxicity</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Specific target organ toxicity (single exposure)</u> | Not classified (Based on available data, the classification criteria are not met) |
| <u>Specific target organ toxicity (repeated exposure)</u> | Not classified (Based on available data. Etude sur la toxicité de l'acier inoxydable - FINNISH INSTITUTE OF OCCUPATIONAL HEALTH - 2010. (method OCDE 412)) |
| <u>Aspiration hazard</u> | Not classified (Technical impossibility to obtain data) |

11.2 Information on other hazards

No further relevant information available

SECTION 12: Ecological information

12.1 Toxicity

| | |
|-----------------------------------|---|
| <u>Ecology – general :</u> | Does not present a particular risk to the environment, subject to compliance with Section 13 disposal recommendations and national or local regulatory requirements that may apply. |
| <u>Acute aquatic toxicity :</u> | Not classified |
| <u>Chronic aquatic toxicity :</u> | Not classified |

12.2 Persistence and degradability

Not applicable. Does not contain any PBT or vPvB substances

12.3 Bioaccumulative potentiel

Not applicable. Does not contain any PBT or vPvB substances

12.4 Mobility in soil

No further relevant information available

12.5 Results of PVP and vPvP assessment

No further relevant information available. Does not contain any PBT or vPvB substances

12.6 Endocrine disrupting properties

No further relevant information available

Does not contain any substance with endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effect

No further relevant information available

SECTION 13: Disposal information

13.1 Waste treatment methods

The waste holder has the duty to assess the hazard properties of the waste.

Recommendation

Material recycling. Do not discharge the product into the environment. Dust and used abrasives may contain pollutants resulting from the industrial process. Each user must study the problem of waste in relation to his specific activity, in contact with specialized organizations

SECTION 14: Transport information

According to ADR / RID / IMDG / IATA / ADN requirements

| ADR | IMDG | IATA | ADN | RID |
|--|----------------|----------------|----------------|----------------|
| <u>14.1 UN number</u> | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| <u>14.2 UN proper shipping name</u> | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| <u>14.3 Transport hazard class</u> | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| 14.4 Packaging group | | | | |
|----------------------------------|----------------|----------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5 Environmental hazard | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

No chemical safety assessment done for the product.

SECTION 16: Other information

Data : Guidance on the compilation of SDS. ECHA - European Chemicals Agency.
Etude sur la toxicité de l'acier inoxydable - FINNISH INSTITUTE OF OCCUPATIONAL HEALTH - 2010.
Décision de l'association européenne EuroFer Stainless sur la classification de l'acier inoxydable - 2014.
GESTIS-DUST-EX
Database Combustion and explosion characteristics of dusts

RoHS : The product for the identified use does not fall within the scope of RoHS directive. For information, the chemical composition of the product complies with Annex II of the directive 2011/65/EU modified by directive 2015/863/EU.

This document is not contractually binding. Contact your local representative for further information.