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

### 1.1 Product identifier

Identifier : mixture
Designation : high carbon steel blasting media

### 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

Manufacturer: WINOA
528 AVENUE DE SAVOIE
38570 LE CHEYLAS

e-mail : claire.vautrin@winoagroup.com
Telephone : +33 4 76 92 92 36

### 1.4 Emergency telephone number

| Country | Organisation | Address | Phone, e-mail, website |
|---|---|---|---|
| United Kingdom | **National Poisons Information Service (NPIS)** | **National Poisons Information Service (NPIS)** | **Email: director.birmingham.unit@npis.org Website: http://www.npis.org/** |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or the mixture

**Classification according to regulation (EC) n°1272/2008 (CLP)**
Not classified

### 2.2 Label elements

In accordance with point 1.3.4 of CLP regulation, metals in massive form and alloys, although classified as hazardous do not require a label, if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, in accordance with the criteria of this Annex.

### 2.3 Other hazards

| | |
|---|---|
| Other hazards not resulting in classification : | Risks are dependent upon the user's process and application |
| Health hazard : | 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. 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<br>(N° CE) 231-096-4 | 60 - 70 | Not classified |
| Silicon | (N° CAS) 7440-21-3<br>(N° CE) 231-130-8 | <= 3,5 | Not classified |
| Carbon | (N° CAS) 7440-44-0<br>(N° CE) 231-153-3 | <= 2 | Not classified |
| Manganese | (N° CAS) 7439-96-5<br>(N° CE) 231-105-1 | <= 2 | Not classified |

Additional information:
The product is manufactured from recovered scrap metal. Due to the scrap metal recovery process, other unintentionally added elements such as Chromium (Cr), Nickel (Ni) or 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 |
| Unsuitable extinguishing agents : | Water. Carbon dioxide (CO2) |

### 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 equipement: | 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 informations, 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

| | | |
|---|---|---|
| **Chromium (7440-47-3)** | | |
| EU | Local name | Chromium metal |
| EU | IOELV TWA (mg/m³) | 2 mg/m³ |
| UK | IOELV TWA (mg/m³) | 0.5 mg/m³ |
| **Nickel (7440-02-0)** | | |
| EU | Local name | Nickel metal |
| EU | IOELV TWA (mg/m³) | 0,005 mg/m³ (respirable fraction)<br>0,01 mg/m³ (inhalable fraction) |
| EU | Notes | SCOEL Recommendations (2011) |
| EU | Regulation reference | SCOEL Recommendations |
| **Manganese (7439-96-5)** | | |
| UE | Nom local | Manganese |
| UE | IOELV TWA (mg/m³) | 0,2 mg/m³ (inhalable fraction)<br>0,05 mg/m³ (respirable fraction) |
| UE | Notes | SCOEL Recommendations (2011) |
| UE | Référence réglementaire | SCOEL Recommendations |
| UK | IOELV TWA (mg/m³) | 0.5 mg/m³ |
| **Silicon (7440-21-3)** | | |
| UK | Local name | Silicon |
| UK | IOELV TWA (mg/m³) | 10 mg/m³ (Inhalable fraction) |
| UK | IOELV TWA (mg/m³) | 4 mg/m³ (Respirable fraction) |
| **Copper (7440-50-8)** | | |
| UE | Local name | Copper |
| UE | IOELV TWA (mg/m³) | 0,01 mg/m³ (respirable fraction) |
| UE | Notes | SCOEL Recommendations (2011) |
| UE | Regulation reference | SCOEL Recommendations |
| UK | Local name | Copper |
| UK | IOELV TWA (mg/m³) | 0.2 mg/m³ (fume, respirable dust |

### 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:**

Waterproof protective gloves. The gloves used must comply with the specifications of Directive 89/686 / EEC and the corresponding standard NF EN 374. Breakdown time: consult the manufacturer's recommendations.

**Eye and face protection :**

Tightly sealed goggles

**Skin protection :**

Wear suitable protective clothing

**Respiratory protection :**

Filter P2

**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

| | |
|---|---|
| Form : | Solid |
| Appearence : | Metal alloy. |
| Color : | Silver gray. |
| Odor : | Odorless. |
| pH : | Not applicable |
| Evaporation rate | No data available |
| Melting range | 1400 - 1550 °C (2552 – 2822 °F) |
| Freezing point : | No data available |
| Boiling range : | 2850 – 3150 °C (5162 – 5702 °F) |
| Flash point : | Not applicable |
| Self – igniting : | Not self-igniting |
| Decomposition temperature: | No data available |
| Flammability (solid, gaz) : | Non-flammable |
| Vapor pressure: | Not applicable |
| Vapor density : | No data available |
| Density : | > 7,6 g/cm³ |
| Bulk density : | 3 - 5 g/cm³ |
| Solubility(s) : | Water: Insoluble |
| Log Pow : | Not applicable |
| Viscosity | Not applicable |
| Danger of explosion : | Product does not present an explosion hazard |
| Oxidising properties : | Not oxidising. |

### 9.2 Other information

| | |
|---|---|
| Other property : | Particles size : 0,05 – 5 mm depending on grade |

## 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

| | |
|---|---|
| Acute toxicity (oral) | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | Not classified (Based on available data, the classification criteria are not met) |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) pH: Not applicable |
| Eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) |
| Skin sensibilisation or to the respiratory tract | Not classified (Based on available data, the classification criteria are not met) |
| Additional indications | Based on available data. The release rate of nickel is low <0,5 µg/cm²/week, the sensibilisation induced by stainless steel can be considered as unlikely. |
| Germ cell mutagenicity/Genotoxicity | Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | 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) |
| Reproductive toxicity | Not classified (Based on available data, the classification criteria are not met) |
| Specific target organ toxicity (single | Not classified (Based on available data, the classification criteria are not met) |

exposure)

Specific target organ toxicity (repeated exposure) — Not classified (Based on available data. Etude sur la toxicité de l'acier inoxydable - FINNISH INSTITUTE OF OCCUPATIONAL HEALTH - 2010. (method OCDE 412))

Aspiration hazard — Not classified (Technical impossibility to obtain data)

## SECTION 12: Ecological information

### 12.1 Toxicity

Ecology – general : 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.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

### 12.2 Persistance and degradability

Not applicable

### 12.3 Bioaccumulative potentiel

Not applicable

### 12.4 Mobility in soil

No further relevant information available

### 12.5 Results of PVP and vPvP assessment

No further relevant information available

### 12.6 Other adverse effect

No further relevant information available

## SECTION 13: Disposal information

### 13.1 Waste treatment methods

Do not discharge the product into the environment.

Recommendation : Material recycling. 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 |
|---|---|---|---|---|
| 14.1 UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2 UN proper shipping name | | | | |

| | | | | |
|---|---|---|---|---|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.3 Transport hazard class** | | | | |
| 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

#### 15.1.1 EU regulations

Dose not contain any substances listed in the Annex XVII of REACH
Does not contain any substance of the candidate list (REACH)
Does not contain any substance listed in the Annex XIV of REACH

#### 15.1.2 National legislations

No further relevant information available

### 15.2 Chemical safety assessment

No chemical safety assessment done for the product.

## SECTION 16: Other information

Data :

SDS from the suppliers. 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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.