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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

Supplier : Metabrasive Ltd
 Ironmasters Way, Stillington
 Stockton, TS21 1LE, UK

e-mail : sales@wabrasive.com
 Telephone : +44 (0)1740 632100
 Only available during office hours

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 :

Health hazard :

Fire - Explosion :


Other risks :

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. Dust may cause mechanical irritation of the eyes and respiratory tract.

Dust can form an explosive mixture with air.

Noise. Risk of falling due to the presence of abrasives on the floor.

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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	>80	Not classified
Silicon	(N° CAS) 7440-21-3 (N° CE) 231-130-8	0.4 – 1.2	Not classified
Carbon	(N° CAS) 7440-44-0 (N° CE) 231-153-3	0.8 – 1.2	Not classified
Manganese	(N° CAS) 7439-96-5 (N° CE) 231-105-1	0.35 – 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


<u>General information :</u>	In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<u>Following inhalation :</u>	Remove person to fresh air and keep comfortable for breathing.
<u>Following skin contact :</u>	If on skin, wash thoroughly with water after handling. If irritation occurs: get medical advice/attention
<u>Following eye contact :</u>	Do not rub, wash thoroughly with water keeping eyelids wide open (at least 15 minutes). If irritation persists, consult an ophthalmologist.
<u>Following ingestion :</u>	Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

<u>Symptoms/effects :</u>	Dust may cause mechanical irritation of the eyes and respiratory tract.
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4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

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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 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 informations, see section 13.

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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		
UK	Local Name	General workplace dust
UK	IOELV (mg/m ³)	10 mg/m ³ (inhalable fraction)
UK	IOELV (mg/m ³)	4 mg/m ³ (respirable fraction)
Chromium (7440-47-3)		
EU	Local name	Chromium metal
EU	IOELV TWA (mg/m ³)	2 mg/m ³
UK	IOELV TWA (mg/m ³)	0.5 mg/m ³
Nickel (7440-02-0)		
EU	Local name	Nickel metal
EU	IOELV TWA (mg/m ³)	0,005 mg/m ³ (respirable fraction) 0,01 mg/m ³ (inhalable fraction)
EU	Notes	SCOEL Recommendations (2011)
EU	Regulation reference	SCOEL Recommendations
Manganese (7439-96-5)		
EU	Local name	Manganese
EU	IOELV TWA (mg/m ³)	0,2 mg/m ³ (inhalable fraction) 0,05 mg/m ³ (respirable fraction)
EU	Notes	SCOEL Recommendations (2011)
UK	IOELV TWA (mg/m ³)	0.5 mg/m ³ (fumées, en Mn)
Silicon (7440-21-3)		
UK	Local name	Silicon
UK	IOELV TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
UK	IOELV TWA (mg/m ³)	4 mg/m ³ (respirable fraction)
Copper (7440-50-8)		
EU	Local name	Copper
EU	IOELV TWA (mg/m ³)	0,01 mg/m ³ (respirable fraction)
EU	Notes	SCOEL Recommendations (2011)

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EU	Regulation reference	SCOEL Recommendations
UK	Local name	Copper
UK	IOELV TWA (mg/m ³)	0.2 mg/m ³ (fume, respirable dust)

8.1.2 Biological limit values

Chromium (7440-47-3)		
UK	local name	chromium and its water soluble compounds
UK	BAR	0,6µg/L urine, at end of exposure
UK	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)
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

<u>Form :</u>	Solid
<u>Appearance :</u>	Metal alloy.
<u>Color :</u>	Silver gray.
<u>Odor :</u>	Odorless.
<u>pH :</u>	Not applicable
<u>Evaporation rate</u>	No data available

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<u>Melting range</u>	1400 - 1550 °C (2552 – 2822 °F)
<u>Freezing point :</u>	No data available
<u>Boiling range :</u>	2850 – 3150 °C (5162 – 5702 °F)
<u>Flash point :</u>	Not applicable
<u>Self – igniting :</u>	Not self-igniting
<u>Decomposition temperature:</u>	No data available
<u>Flammability (solid, gaz) :</u>	Non-flammable
<u>Vapor pressure:</u>	Not applicable
<u>Vapor density :</u>	No data available
<u>Density :</u>	> 7,6 g/cm ³
<u>Bulk density :</u>	3 - 5 g/cm ³
<u>Solubility(s) :</u>	Water: Insoluble
<u>Log Pow :</u>	Not applicable
<u>Viscosity</u>	Not applicable
<u>Danger of explosion :</u>	Product does not present an explosion hazard
<u>Oxidising properties :</u>	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

<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

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<u>Eye damage/irritation</u> <u>Skin sensitisation or to the respiratory tract</u> <u>Additional indications</u> <u>Germ cell mutagenicity/Genotoxicity</u> <u>Carcinogenicity</u> <u>Reproductive toxicity</u> <u>Specific target organ toxicity (single exposure)</u> <u>Specific target organ toxicity (repeated exposure)</u> <u>Aspiration hazard</u>	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) 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. Not classified (Based on available data, the classification criteria are not met) 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) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data. Etude sur la toxicité de l'acier inoxydable - FINNISH INSTITUTE OF OCCUPATIONAL HEALTH - 2010. (method OCDE 412)) Not classified (Technical impossibility to obtain data)
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SECTION 12: Ecological information

12.1 Toxicity

<u>Ecology – general :</u> <u>Acute aquatic toxicity :</u> <u>Chronic aquatic toxicity :</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. Not classified Not classified
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12.2 Persistence 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

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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

Does 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.

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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 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.