

In accordance to regulation (EC) N° 1907/2006 (REACH) modified by regulation (EU) 2015/830, amended by regulation (EU) 2020/878

Revision: 5

Date:

24/01/2022

High Carbon steel abrasive

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

Société : WINOA e-mail : claire.vautrin@winoagroup.com 528 AVENUE DE SAVOIE Telephone : +33 4 76 92 92 36

38570 LE CHEYLAS

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 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.



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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	> 95	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 melting of 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



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Do not rub, wash thoroughly with water keeping eyelids wide Following eye contact:

open (at least 15 minutes). If irritation persists, consult an

ophthalmologist.

Get medical advice/attention. Following ingestion:

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

Provide adequate ventilation. Steel abrasives on horizontal General measures:

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



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dust. Response limited to qualified personnel with appropriate protection.

6.1.2 For emergency responders

<u>Protective equipment:</u> 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



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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 TWA (mg/m³)	10 mg/m³ (inhalable fraction)	
UK	IOELV TWA (mg/m³)	4 mg/m³ (respirable aerosol)	
Chromiun	n (7440-47-3)		
EU	Local name	Chromium metal	
EU	IOELV TWA (mg/m³)	2 mg/m³	
France	VME (mg/m³)	2 mg/m³	
Nickel (74	140-02-0)		
EU	Local name	Nickel metal	
EU	IOELV TWA (mg/m³)	0,005 mg/m³ (respirable fraction)	
		0,01 mg/m³ (inhalable fraction)	
EU	Notes	SCOEL Recommendations (2011)	
EU	Regulation reference	SCOEL Recommendations	
France	Local name	Nickel (métal)	
France	VME (mg/m³)	1 mg/m³	
France	Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2	
Mangane	se (7439-96-5)		
UE	Nom local	Manganese	
UE	IOELV TWA (mg/m³)	0,2 mg/m³ (inhalable fraction)	
		0,05 mg/m³ (respirable fraction)	
UE	Notes	SCOEL Recommendations (2011)	
UE	Référence réglementaire	SCOEL Recommendations	
France	VME (mg/m³)	1 mg/m³ (fumées, en Mn)	
Silicon (7	440-21-3)		
France	Local name	Silicon	
France	VME (mg/m³)	10 mg/m³	
France	Note (FR)	Valeurs recommandées/admises	
Copper (7	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	
France	Local name	Cuivre	
France	VME (mg/m³)	0.2 mg/m³ (fumées, en Cu)	



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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	1-02-0)			
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	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.



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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/cm³	
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

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

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.

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



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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.

Acute toxicity (oral)

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

route toxiony (oral)	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

Not classified (Based on available data, the classification criteria are not met) pH: Not applicable

Not classified (Based on available data, the classification

Eye damage/irritation Not classified (Based on available data, the classification

criteria are not met)

Skin sensibilisation or to the respiratory Not classified (Based on available data, the classification tract

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.

Not classified (Based on available data, the classification Germ cell mutagenicity/Genotoxicity

criteria are not met)

Carcinogenicity Non classé. (Based on available data. Etude sur la toxicité

de l'acier inoxydable - FINNISH INSTITUTE OF



Reproductive toxicity

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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)

Specific target organ toxicity (single Not classified (Based on available data, the classification criteria are not met)

exposure)

Specific target organ toxicity (repeated Not classified (Based on available data. Etude sur la

toxicité de l'acier inoxydable - FINNISH INSTITUTE OF exposure) OCCUPATIONAL HEALTH - 2010. (method OCDE 412))

Not classified (Technical impossibility to obtain data) Aspiration hazard

11.2 Information on other hazards

No further relevant information available

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. Does not contain any PBT or vPvB substances

12.3 Bioaccumulative potential

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.



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12.7 Other adverse effect

No further relevant information available

SECTION 13: Disposal information

13.1 Waste treatment methods

<u>Waste code</u>: the List of Waste (LoW) provides an EU-wide common terminology for waste classification to ease waste management, including for hazardous waste. Waste Blasting Materials belong to the 12 01 code group according to LoW which comprises "wastes from shaping and physical and mechanical surface treatment of metals and plastics", under mirror entries 12 01 16* dedicated to hazardous waste blasting materials and 12 01 17 to non-hazardous one.

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

<u>Recommendation</u>: 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
14.1 UN numbe	<u>r</u>			
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



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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

Does not contain any substances listed in the Annex I of regulation "POP" (EU) 2019/1021 amended by regulation (EU) 2021/277

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: 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 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.