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Trade name : WR - Stainless Steel Shot Chromium/Nickel

EG - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page 1(8)

1. Identification of the substance and the company

Trade name: WR - Stainless Steel Shot Chromium/Nickel

Use of the mixture: Sandblasting processes
Resin filler, compound filler
Counterweight
Abrasive media (stone processing)
Filler for brake liners compound

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2. Hazards identification

Classification of the mixture

Classification according to Regulation (EC) n. 1272/2008 (CLP/GHS):

Hazard classes and categories (Reg. 1272/2008): **Skin Sens. 1; Carc. 2; STOT RE. 2**
Hazard statements (Reg. 1272/2008): **H317; 351; H373**

Label elements

Labelling according to Regulation (EC) no. 1272/2008 (CLS/GHS)

According to art. 12 of Directive 1999/45/EC, to art. 23 and ANNEX I (point 1.3.4.) of Regulation n. 1272/2008, such mixtures do not require a label (metals in massive form/metal alloys).

Other hazards

The substance in the mixture do not meet the criteria for PBT or vPvB substances.

SDS_27.04	28/04/2011	Updated classification and labelling according to Regulation 1272/2008/CE (CLP). Modified name if the document.
SDS_27.03	24/08/2009	Updated points: 1.1; 2.1; 3.1; 3.2; 13; 15.1; 16.1; 16.2
Ident Rev.	Date	Description



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page 2(8)

3. Composition/Information on ingredients

Iron-based smelted alloy.

Mixture: Nickel 9 % (max w/w); Chrome 20 % (max w/w); Manganese 2 % (max w/w)
Iron 65 - 75 % (w/w); Silicon 2,5 % (max w/w)

Regulation no. 1272/2008

EINECS N°	CAS N°	INDEX N°	Chemical name	Conc. /%w/w)	Hazard class and category code	Hazard statement
231-111-4	7440-02-0	028-002-01-4	Nickel	≤ 9	Carc. 2 STOT RE.1 Skin Sens. 1 Aquatic Chronic 3	H351 H372 H317 H412
231-157-5	7440-47-3	-	Chrome	< 20	-	-
231-105-1	7439-96-5	-	Manganese	< 2	-	-
231-096-4	7439-89-6	-	Iron	65 - 75	-	-
231-130-8	7440-21-3	-	Silicon	< 2,5	-	-

REACH Registration number (Iron): 01-2119462838-24-0194

	REACH Pre-Registration number
Nickel	05-2115258123-55-0000
Chrome	05-2115258134-52-0000
Manganese	05-2115258131-58-0000
Silicon	05-2115258128-45-0000

Note

In this section, there is the indication of the considered substances classification. It includes the codes bound to hazard statements assigned to the substances due to their safety, health and environmental risks. The meaning of each hazard statement is reported in section no. 16.



EG - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page **3(8)**

4. First aid measures

Description of first aid measures

- Skin contact :** Wash contaminated skin carefully with soap and water. Obtain medical advice if irritation occurs. Cuts or abrasion should be treated promptly with thorough cleansing of the affected area.
- Eye contact :** Use general measures if eye irritations occur. Do not rub eyes. Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician.
- Inhalation :** Move the exposed person to fresh air at once. Perform artificial respiration if necessary. Obtain medical attention as soon as possible.
- Ingestion :** In case of significant oral intake (several mg of product), rinse mouth and give 200 - 300 ml of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

Nose-lung irritation may be symptoms occurring after inhalation of fumes/dusts/mists containing nickel. Contact of the product with skin may produce dermatitis. Inhalation of fine powders in large quantities, may produce pneumoconiosis.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire fighting measures

Extinguish media

- Suitable extinguish media: Dry powder extinguisher class D or dry sand.
- DO NOT USE: Do not use halogenated extinguishing media.
- Special protective equipment for fire-fighters: Wear oxygen or air respirator and suitable safety devices (suit, shoes, hard hat, gloves and glasses).
- Potential risk of exposition: Do not inhale dust and fume.
- Particular practice: **Special attention must be paid to processes and/or systems that might raise clouds of very fine powder likely to be flammable in the presence of primers. Avoid ignition sources.**
- WARNING** To avoid electrostatic discharges, assure the electric bonding of metallic tins and plants.

Special hazards arising from the substance

Material is non-flammable.

Advice for fire-fighters

Wear a self-contained breathing apparatus and suitable personal safety devices (protective clothing, shoes, helmet, gloves, glasses)



EG - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page 4(8)

6. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Avoid formation of dust. Ensure adequate ventilation- Avoid inhalation of dust and fumes. Wear suitable protective equipment.
For emergency personnel:	Avoid formation of dust. Ensure adequate ventilation- Avoid inhalation of dust and fumes. Wear suitable protective equipment. Keep unprotected persons away.
Environmental precautions:	Keep product away from sewers, surface and underground waters and from the ground.
Methods and material for containment and cleaning up:	Do not use compressed air. Place in a container for recycling with a small shovel.

7. Handling and storage

Precautions for safe handling

Do not reuse empty vessels before they have been cleaned or reconditioned.
Clear up industrial lines and vessels before working with ignition sources.
Before making operations of pouring off, assure yourself that inside the tank there aren't
residuals of incompatible substances.
In the matter of protective devices, consult section no. 8 of this SDS.

Conditions for safe storage, including any incompatibilities

Covered, dry and naturally-ventilated area.
Avoid placing material on the floor.
Keep away from food, feed and beverages.
Keep away vessels from strong oxidizing agents.
Do not stack more than 3 pallets high (for products packed in drums).
Do not stack more than 1 pallet high (for product packed in big-bags).
The storage of the product in the stockpiling area must avoid soil percolation of
accidental spillages.
It is advisable to use material within 6 months from its forwarding date.

Specific end uses: None

8. Exposure controls / personal protection

Exposure limit values: TLV – TWA (ACGIH, 2009) [mg/m³]:
Cr=0,5 Ni=1,5 Fe=10 Mn=0,2 Si=10

Ventilation: Work area must be sufficiently ventilated to keep concentration
below the exposure limit.

Workplace exposure controls

Appropriate engineering controls:

Use local ventilation to keep concentration below established threshold values.



EG- Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page 5(8)

8. Exposure controls / personal protection

Personal protection controls

Respiratory protection:

Filter mask FFP3 (S)

Local exhaust fumes ventilation (high efficiency: 90 - 95%)

Cyclones/filters (to minimize atmospheric emission of dust)

Hand protection:

leather gloves according to EN 388 standard

Eye protection:

Use safety glasses (EN 166), do not use contact lenses

Skin protection:

Tyvec suit.

Environmental exposure controls:

Avoid release to the environment. Take precautions against spillage into public sewage or into water channels. Dispose of material and its vessels in hazardous waste collecting area.

No smoking, eating or drinking in the work area.

9. Physical and chemical properties

Physical state

(20°C and 1013 hPa):

Solid. Irregular granules with different granulometry.

Colour:

metallic

Melting point:

1420 - 1550 °C

Initial boiling point and boiling range:

No applicable to a solid that melts >300 °C (column 2 of Annex VII of the Reach Regulation)

Flammability:

Non flammable

Relative density:

Approx. 4,5 g/cm³

Specific weight:

Approx. 7,8 g/cm³ (at 20°C)

Water solubility (mg/l):

no

Auto-ignition temperature:

No auto-ignition

Explosive properties:

Non explosive. The substance does not contain chemical groups associated with explosive properties.

10. Stability and reactivity

Reactivity

N.A. See section 9.

Chemical stability

Under normal conditions of use, the product is stable.

Possibility of hazardous reactions

May generate hydrogen in contact with materials of the point 10.5

Conditions to void

Avoid dust information.

Incompatible material

Halogens, halides, strong concentrated acids, alkaline oxides.

11. Toxicological information

Routes of exposure:

inhalation, ingestion and skin-contact.

Acute oral, dermal and inhalation toxicity:

Oral:

Not classified.

Dermal:

Not classified.

Inhalation:

Not classified.



EG - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page 6(8)

11. Toxicological information

Risk of exposure:

STOT single exposure:	Not classified.
Skin corrosion/irritation:	Not classified.
Respiratory or skin sensitization:	Skin sensitizer category 1.
Repeated dose toxicity and STOT-RE:	Classified in category 2. Guidance values to assist in category 2 classification. Inhalation (rat) dust/mist/fume: 0,02 < C < 0,2 (mg/litre/6h/day)
Mutagenicity:	Not classified.
Carcinogenic:	Category 2 (CLP). Suspected of causing cancer.
Reproductive toxicity:	Not classified.

12. Ecological information

Acute aquatic toxicity:	Not classified.
Chronic water toxicity:	Not classified.
Chronic freshwater sediment toxicity:	Not classified.
Soil toxicity:	Not classified.
Persistence and degradability:	Not classified.
Bio accumulative potential:	Not classified.
Mobility in soil:	Data lacking
Results of PBT and vPvB assessment:	The mixture does not contain PBT or vPvB substances.
Other adverse effects:	The product is not expected to contribute to ozone depletion, ozone formation, global warming or acidification.

13. Disposal considerations

Disposal procedures according to Decision 2000/532/EC as amended by the decisions 2001/118/EC, 2001/119/EC, 2001/573/EC and 2008/98/EC.

<u>Product disposal:</u>	dispose as hazardous waste, according to in force law. In virtue of the origin of the waste and of its present state, several European Waste Codes (EWC) can be applied.
<u>Packaging disposal:</u>	dispose according to in force law. In virtue of the origin of the waste and of its present state, several European Waste Codes (EWC) can be applied.

14. Transport information

Road / Rail / Inland waterways Transport (RID/ADR/ADN)	Maritime transport (IMDG code)	Air transport (IATA /ICAO T.I.)
Product not classified as dangerous		



EG - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page 7(8)

15. Regulatory information

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

The mixture is NOT subject to:

- Regulation (EC) n. Regulation (EC) no. 2037/2000 of the European Parliament and of the Council of 29. June 2000 on substances that deplete the ozone layer;
- Regulation (EC) no. 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants;
- Regulation (EC) n. 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals.

Chemical safety assessment: Yes, it has been carried out for Iron.

16. Other information

Type of revision: every section. This SDS cancel and substitute every past SDS editions.

Consistent with Regulation (EC) no. 1907/2006.

The information reported in this Safety Data Sheet are based on the best scientific and toxicological knowledge up to the date indicated above. These information are based on the bibliography below. Reported data refers only to the pure substance.

The downstream user must follow in force laws, and make sure that the SDS information are up to date, appropriate and complete in relation to the product utilization date and to the on-site specific use.

Description of the most important Hazard Statement used in section 2 and 3 of the present SDS

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer

H372: Causes damage to organs through prolonged or repeated exposure.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

Safety Data Sheet based on:

- Directive 1999/45/EC and following updates and amends.
- D.Lgs. 14/3/2003 n. 65 (Italian law)
- Directive 2001/58/EC and following updates and amends.
- D.M. 7/9/2002 (Italian law)
- Decision 2000/532/EC and following updates and amends.
- Directive 2004/74/EC
- Regulation EC n.1907/2006 (REACH)
- Regulation EC n. 2172/2008 (CLP)
- Regulation EC n. 790/2009
- Regulation EC n. 453/2010

Laws and References

- Directive 67/548/EEC and following updates and amends. (Directive on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances)
- D.Lgs. 52/97 and following updates and amends. (Italian law)



EG - Safety Data Sheet to Regulation (EC) no. 1272/2008 (version 27.04)

Issue date: January 2020

page 8(8)

16. Other information

- Directive 1999/45/EC and following updates and amends. (concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparation)
- D.Lgs. 14/3/2003 n. 65 (Italian law)
- Regulation (EC) n. 1272/2008 (CLP)
- D.Lgs. 152/2006 (Italian law)
- ADR (European Agreement concerning the international Carriage of Dangerous Goods by Road).
- IMDG Code (International Maritime Dangerous Goods Code)
- IATA (International Air Transport Association)
- SAX'S (Dangerous Properties of Industrial Materials)
- ACGIH (2009) American Conference of Governmental Industrial Hygienists

Abbreviations and definitions

DNEL: Derived No-effect Level

EC10: Effective concentration to 10 % of the test organisms

HC-5: The concentration without effect for 95 % of the species = statistically derived environmental threshold value.

LC10: Lethal concentration to 10 % of the test organisms

LC50: Lethal concentration to 50 % of the test organisms

LD50: Lethal dose to 50 % of the test organisms

NOEC: No Observed effect concentration = highest concentration tested without effects

PBT: Persistent Bio accumulative and Toxic

PNEC: Predicted No-effects concentration

REACH: EC regulation on Registration, Evaluation and Authorisation of Chemicals

STOT: Specific Target Organ Toxicity

Skin Irritating Substance: a substance that will lead to reversible damage to the skin following the application of a test substance for up to 4 hours.

Respiratory Sensitizer Substance: a substance that, if inhaled, will lead to hypersensitivity which is normally seen as asthma, but other hypersensitivity reactions such as rhinitis/conjunctivitis and alveolitis are also considered.

Skin Sensitizer Substance: a substance that will lead to an allergic response following skin contact.

TLV-TWA: Threshold Limit Value (TLV) - Time Weighted Average (TWA)

vPvB: Very Persistent, very Bio accumulative.
