

MATERIAL SAFETY DATA SHEET

1.- IDENTIFICATION OF PRODUCT AND COMPANY

Product Name	Ventura Orcast Plus	Date: 14.03.2003
MADESPA, SA RIO JARAMA, 120 45007 TOLEDO – ESPAÑA Tlf +34 925 24 10 25 Fax: +34 925 24 10 28		
Emergency telephone number	Call local Poison Control Centre for assistance.	

2.- COMPOSITION / COMPONENT INFORMATION

COMPONENT	%	CAS NUMBER	EC NUMBER	R / S - PHRASES	TLV (mg/m ³)
Copper (Cu)	81,.50	7440-50-8	231-159-6	R-53	0.2
Aluminium (Al)	7.00	7429-90-5	231-072-3	-----	5.0
Nickel (Ni)	4.50	7440-02-0	231-111-4	R 40–43 / S 22-36	1.0
Iron (Fe)	3.00	7439-89-6	231-096-4	R 11	5.0
Manganese (Mn)	2.00	7439-96-5	231-105-1	R 48-20 / S 24-25	0.2
Zinc (Zn)	2.00	7440-66-6	231-175-3	R 10-15 / S 7-8-43.3	5.0

3.- HAZARDS IDENTIFICATION

Human Health Hazards This product contains Nickel (Ni). Do not inhale powder or vapours produced by melting and grinding..
Environmental Hazards Not applicable.
Physical and Chemical Hazards Not applicable.

4.- FIRST AID PROCEDURES

Ingestion If large quantities are swallowed, wash out mouth and call physician.
Eye contact Rinse with a copious amount of running water.
Inhalation of vapours or powder Take the affected person to a fresh air area.

5.- FIRE FIGHTING PROCEDURES

Extinguishing Measures

- **Suitable:** Use dry powder, dry sand or CO₂ to smother the flame.
- **Not suitable:** Do not use water for metal fires.

Specific Hazards

Not applicable.

Special Fire-Fighting Procedures

No special measures required.

Protection of fire-fighters

Use normal fire fighting equipment. In case of large fire, fire-fighters should use autonomous breathing equipment.

6.- PROCEDURES FOR ACCIDENTAL SPILLS

Personal precautions

Wear protection clothing during cleaning up of powder. Use mask to avoid inhalation of powder.

Environmental precautions

Put into a container for recovering.

Cleaning measures

In case of big quantities, pick up the powder by sweeping or aspirating to assure minimum concentration in air.

7.- HANDLING AND STORAGE

Handling

No especial measures required.

Storage

Does not require special environment for storage.

Packaging

- **Packaging conditions:** No special measures required.
- **Materials of container:** Plastic or metallic materials.
- **Recommended:** Resistant plastic container.

8.- EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Conditions

No special measures required.

Personal protective equipment

- **Skin and body:** Lab coat.
- **Eyes:** Safety glasses.
- **Hands:** Under normal conditions protective gloves are not required.
- **Respiratory protection:** Provide adequate ventilation and localized air intake in order to assure compliance with TLV requirements.

Hygienic Measures

Clean hands and face after use.

9.- PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Colour	Yellow
Odour	Odourless
pH	Not applicable
Density	7,8 g/ml
Water solubility	Insoluble into cold water
Organic dissolvent solubility	Not applicable
Melting range	1046 – 1077 °C
Boiling point	Not available
Flammability point	Not applicable
Flammability	Not applicable
Auto ignition temperature	Not applicable
Explosive properties	Not applicable
Tensile strength	495 MPa
Proof strength of non-proport elongation R_{po,2}	290 MPa
Vickers Hardness	152
Elongation at fracture	29 %

10.- STABILITY AND REACTIVITY

Stability The product is stable.
Hazards Reactions The melted metal can react violently with water. The powder of this alloy can react with strong acids, bases and oxidizers.
Conditions to avoid Avoid wet conditions for storage. Avoid contamination from petroleum products.
Hazardous decomposition products No dangerous substances are released.

11.- TOXICOLOGICAL INFORMATION

Chronic toxicity Not applicable.
Local effects Ventura Orcast Plus contains Nickel (4.50 %). The illness most commonly associated with nickel is an allergic dermatitis called "nickel itch" that normally occurs if skin is moist. Generally, nickel and most nickel salt do not cause systematic intoxications.

12.- ECOLOGICAL INFORMATION

Environmental evolution Avoid penetration in ground, water and canalization. Small forms as ingots or shots are not, in general, hazardous to water.
Persistence / Degradability Not applicable.
Bioaccumulation Not applicable.

13.- CONSIDERATIONS REGARDING ELIMINATION

Residues <ul style="list-style-type: none"> • Prohibitions: Do not use as new alloy. • Destruction / Elimination: Put into authorized garbage dump according to local laws.
Dirty Containers <ul style="list-style-type: none"> • Decontamination / Cleaning: Not applicable. • Destruction / Elimination: Not applicable.
Observations Clean rests could be reused following use instructions.

14.- INFORMATION FOR TRANSPORT

International transport regulation <ul style="list-style-type: none"> • Railway / Land-Road (RID / ADR): None. • Sea (IMDG): None. • Air (IATA): None.
Observations Product not dangerous according to transport regulation.

15.- REGULATORY INFORMATION

This product is ruled by UE regulations. <ul style="list-style-type: none"> • R / S - Phrases <ul style="list-style-type: none"> R-43 : May cause sensitization by skin contact R-53 : May cause long-term adverse effects in an aquatic environment. S-22 : Do not breath dust S-24 : Avoid contact with skin S-25 : Avoid contact with eyes S-36 : Wear suitable protective clothing S43 : In case of fire, use appropriate extinguishing measures. Do not use water.
Content Copper base alloy.

16.- OTHER INFORMATION

<p>The information contained in this MSDS is additional to the technical instructions of use, but does not substitute the same. This information included here is based on the knowledge and experience related to the safety of the materials, if they are used in an appropriate manner, and on the MSDS received from the producers of the raw materials used in the formulation of this product.</p> <p>The user is obliged to know and apply the legal texts applicable to his/her activity and will assume the entire responsibility with respect to the precautions inherent in the usage of this product.</p> <p>The instructions described above are aimed to help the user to comply with the acquired obligations when using this product. This description is merely informative but not restrictive.</p> <p>The user will also comply with any other legal obligations, specially those related to the usage of this product, being him the one responsible for his/her acts.</p>
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