


MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	PRODUCT IDENTIFIERS/PRODUCT NAME	STAR3HP
1.2	RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Alloy for goldsmithing and/or silverware, it can also be used for custom jewelry production.
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	METALTECH SRL VIA SAVIABONA, 113G - 36010 CAVAZZALE DI MONTICELLO CONTE OTTO (VI) - ITALY Tel: +39 (0444) 597374 info@metaltech.net www.metaltech.net Metaltech srl Safety Department Email: mauro.disiro@metaltech.net
1.4	EMERGENCY TELEPHONE NUMBER	Milan Poison Control Center c/o Hospital Niguarda Piazza Ospedale Maggiore, 3 MILANO - ITALY Tel. +39 02 66101029 (24h)

SECTION 2 HAZARDS IDENTIFICATION

2.1	SUBSTANCE CLASSIFICATION	
2.1.1	CLASSIFICATION ACCORDING TO REGULATION 1272/2008/CE	Carcinogenicity, Category 2. Skin sensitization, Category 1.
2.2	LABEL ELEMENTS	
2.2.1	DANGER PICTOGRAM	
2.2.2	WARNINGS	Warning
2.2.3	INDICATIONS OF DANGER	H351 Suspected of causing cancer by inhalation. H317 May cause an allergic skin reaction.

2.2.4	SAFETY PRECAUTIONS	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume. P280 Wear protective gloves and clothing and eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P308+P333+P313 IF exposed, concerned or skin irritation or rash occurs: get medical advice/attention.
2.2.5	FURTHER INFORMATION	Contains Nickel.
2.3	FURTHER HAZARDS	
2.3.1	PBT OR VPVB PROPERTIES	An evaluation of PBT and vPvB properties has not been done.
2.3.2	OTHER HAZARDS	None to report.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.2	MIXTURE	
3.2.2	DENOMINATION	Nickel
3.2.3	INDEX N.	028-002-00-7
3.2.4	CAS N.	7440-02-0
3.2.5	CONTAINED %	>=1
3.2.6	CLASSIFICATION	Carc. 2, Skin Sens. 1 H351, H317

SECTION 4 FIRST AID MEASURES

4.1	DESCRIPTION OF FIRST AID MEASURES	
4.1.1	IF INHALED / AFTER SMOKES INHALATION	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
4.1.2	AFTER CONTACT WITH SKIN	Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

4.1.3	AFTER CONTACT WITH EYES	Rinse with water. Possibility of irritation. Seek immediate medical attention.
4.1.4	AFTER INGESTION	Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.
4.2	MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	Respiratory difficulties. Skin irritation. Eyes irritation.
4.3	INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	Following the transformation/processing, adopt prevention measures expected in your own risk assessment document. For more severe cases seek medical advice.

SECTION 5 FIREFIGHTING MEASURES

5.1	EXTINGUISHING MEDIA	Consider closed materials. Foams, CO2, dry chemicals. Do not use water in order to avoid possible explosion problems.
5.2	SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	No particular risk, non-combustible. In case of fire it could release metal vapours and its oxides.
5.3	ADVICE FOR FIREFIGHTERS	In case of smoke production use adequate protective masks with a B type filter (grey color).

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1	PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	As supplied: do not ingest, no specific protection measure is necessary. In case of established sensibility to the components use work gloves to protect hands and powder-protection masks. Following product transformation/processing, adopt prevention measures expected in risks evaluation document.
6.2	ENVIRONMENTAL PRECAUTIONS	Do not release to the environment. In case of accidental leak, immediatly collect the product.
6.3	METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	Common mechanical collection tools.
6.4	REFERENCES TO OTHER SECTIONS	In sections 8 and 13 further information linked to the present section can be found.

SECTION 7 HANDLING AND STORAGE

7.1	PRECAUTIONS FOR SAFE HANDLING	In case of established sensibility to the components use appropriate gloves to protect hands and powder-protection masks. In case of sensibility seek medical attention.
7.2	CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Keep in a closed waterproof package, which is in the supplied packs, on raised-from-floor shelves.
7.3	SPECIFIC END USE(S)	Material for casting. During casting it can produce smoke that can be harmful if inhaled. The obtained products can have sensibilization effects after prolonged contact with skin. It will be up to users to update their own Risks Assessment Document according to the final use and to identify and apply, if necessary, prevention and protection measures contemplated on the current rule.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	CONTROL PARAMETERS	By the user in function of the processing done. For each compound identified in Section 3, the user should take into consideration its own national exposure limit values.
8.2	EXPOSURE CONTROLS	
8.2.1	HANDS PROTECTION	In case of established sensibility to the components use working gloves or protective ointments. During molten metal handling wear appropriate gloves, anti-sketches clothes and protections for the face.
8.2.2	EYE/FACE PROTECTION	Use protection glasses during industrial handling stages.
8.2.3	RESPIRATORY PROTECTION	Use a protective mask for powders with a FFP2 degree of protection, and B type filter (grey color).
8.2.4	INDUSTRIAL HYGIENE	No precautions for working clothing cleaning. Working clothing can be washed with water and commonly used detergents.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1	INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES	
9.1.1	APPEARANCE	
9.1.1.1	STATE	Solid in drops

9.1.1.2	COLOUR	Grey
9.1.2	ODOUR	Odourless
9.1.3	PH	Not applicable
9.1.4	MELTING / FREEZING RANGE [°C]	900 - 1000
9.1.5	INITIAL BOILING POINT AND BOILING RANGE [°C]	>1200
9.1.6	RELATIVE DENSITY [G/CM ³]	8.0 - 9.0
9.1.7	WATER SOLUBILITY	Insoluble
9.2	FURTHER INFORMATION	None

SECTION 10 STABILITY AND REACTIVITY

10.1	REACTIVITY	When in contact with water can release metal ions and/or related oxides. When in contact with strong acids can release Hydrogen (fire danger).
10.2	CHEMICAL STABILITY	In normal stocking conditions the mixture results to be stable.
10.3	POSSIBILITY OF HAZARDOUS REACTIONS	When in contact with strong acids can release hydrogen (fire danger).
10.4	CONDITIONS TO AVOID	Immersion in water, contact with acids.
10.5	INCOMPATIBLE MATERIALS	Water, strong acids.
10.6	HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen, when on contact with strong acids.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1	INFORMATIONS ON TOXICOLOGICAL EFFECTS
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11.1.1	ACUTE TOXICITY	Unavailable
11.1.2	SKIN CORROSION/IRRITATION	In case of sensible subjects, contact with the substance can cause skin irritation.
11.1.3	SERIOUS EYE DAMAGE/EYE IRRITATION	Unavailable
11.1.4	AWARENESS	Unavailable
11.1.5	CARCINOGENICITY	Unavailable
11.1.6	MUTAGENICITY	Unavailable
11.1.7	REPRODUCTIVE TOXICITY	Unavailable

SECTION 12 ECOLOGICAL INFORMATION

12.1	TOXICITY	No data available.
12.2	PERSISTENCE AND DEGRADABILITY	Unavailable
12.3	BIOACCUMULATIVE POTENTIAL	Unavailable
12.4	MOBILITY IN SOIL	Unavailable
12.5	RESULTS OF PBT AND VPVB ASSESSMENT	Unavailable
12.6	OTHER ADVERSE EFFECTS	The product in contact water can release metallic ions and/or related oxides.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1	WASTE TREATMENT METHODS	
13.1.1	PRODUCT	Do not release to the environment.

13.1.2 PACKING Do not release to the environment.
 Disposal/reuse according to national and/or local regulations.

SECTION 14 TRANSPORT INFORMATION

14.1	UN NUMBER	ADR/RID: - IMDG: - IATA: -
14.2	UN PROPER SHIPPING NAME	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
14.3	TRANSPORT HAZARD CLASS (ES)	ADR/RID: - IMDG: - IATA: -
14.4	PACKING GROUP	ADR/RID: - IMDG: - IATA: -
14.5	ENVIRONMENTAL HAZARDS	ADR/RID: no IMDG: no IATA: no
14.6	SPECIAL PRECAUTIONS FOR USERS	If manipulated as equipped there are no specific precaution measures to adopt. In case of established sensibility to the components use protection gloves to protect hands and protection masks for powder.

SECTION 15 REGULATORY INFORMATION

15.1	SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	No information
15.2	CHEMICAL SAFETY ASSESSMENT	There has been no evaluation of chemical security.

SECTION 16 OTHER INFORMATION

16.1	FURTHER INFORMATION	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Metaltech srl shall not be held liable for any damage resulting from handling or from contact with the above product.
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