

MATERIAL SAFETY DATA SHEET

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

1.1	PRODUCT IDENTIFIERS/PRODUCT NAME	STAR347HPLUS
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	This mixture is not classified as hazardous to health or the environment according to regulation No. (EC) 1272/2008 [CLP].
2.2	LABEL ELEMENTS	
2.2.1	DANGER PICTOGRAM	
2.2.2	WARNINGS	Not required.
2.2.3	INDICATIONS OF DANGER	Not required.

2.2.4	SAFETY PRECAUTIONS	Not required.
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	
3.2.1	NOTE	No reportable hazardous substance(s) complying with the classification criteria and/or with a community workplace exposure limit.

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	Generally the product is not irritating for skin. Seek medical advice in case of determined sensibility.
4.1.3	AFTER CONTACT WITH EYES	Rinse with water. Possibility of irritation. Seek immediate medical attention.
4.1.4	AFTER INGESTION	Induce vomit and seek immediate medical attention.
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 risks, 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 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	Yellow
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	
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	No data available.
12.3	BIOACCUMULATIVE POTENTIAL	No data available.
12.4	MOBILITY IN SOIL	No data available.
12.5	RESULTS OF PBT AND VPVB ASSESSMENT	No data available.
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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