

CODE: SW 042 A

MATERIAL SAFETY DATA SHEET

Print date: 04/11/2019
Edition 5 - Revision of: 04/11/2019

1. Identification of the substance/mixture and of the Company/undertaking

1.1 PRODUCT IDENTIFIERS / PRODUCT NAME SW 042 A

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST Master alloy in drops, for white gold production

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET GALLORINI ALLOYS SRL
VIA LA CASELLA 2/C, CAPOLONA (AR) - ITALY

Tel: +39 0575 421147

info@gallorini.it

<http://www.gallorini.it>

1.4 EMERGENCY TELEPHONE NUMBER CENTRO ANTIVELENI - U.O. TOSSICOLOGIA MEDICA
AZIENZA OSPEDALIERA CAREGGI
VIALE G.B. MORGAGNI, 65 – FIRENZE
TEL. 055 4277238

SECTION 2: Hazards identification

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.2. LABEL ELEMENTS

PICTOGRAMS Labelling unnecessary in accordance with Regulation (CE) 1272/2008 - Annex I - 1.3.4.

CONTAINS Nichel

SIGNAL WORD WARNING

HAZARD STATEMENTS H351 Suspected of causing cancer
H372 Causes damage to organs through prolonged or repeated exposure
H317 May cause an allergic skin reaction

PRECAUTIONARY STATEMENTS Avoid breathing dust/fume

2.3. OTHER HAZARDS

PBT OR VPVB Mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII

OTHER HAZARDS Dust and fume from processing: may cause eye, skin and respiratory tract irritation and metal fume fever.
Finely dispersed particles form explosive mixtures in air.

SECTION 3: Composition/information on ingredients

3.1 SUBSTANCE Not applicable. This product is regulated as mixture.

3.2. MIXTURE Contains Nichel
CAS 7440-02-0 Carc.2 H351, STOT RE 1 H372, Skin Sens. 1 H317
EC 231-111-4
INDEX 028-002-00-7
Reg. no. 01-2119438727-29-0003 The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4: First aid measures

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	Consult a physician. Show this safety data sheet to the doctor in attendance
INHALATION	If overcome by an excessive fume exposure, remove victim to fresh air. Keep at rest. Get medical attention.
SKIN CONTACT	Flush contaminated skin with soap and water. Remove contaminated clothing. Wash clothing before reuse. Get medical attention if symptoms occur
EYE CONTACT	Flush eyes with water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs
INGESTION	Swallowing small amounts may cause nausea, discomfort and gastric nuisance. Ingestion of large amounts is unlikely due to the organoleptic characteristic of this product. Get medical attention if irritation occurs.
4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	Inhalation of soldering fumes will result in irritation of the respiratory tract, irritation of the mucous membranes of the nose and throat
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 EXTINGUISHING MEDIA

EXTINGUISHING MEDIA: Not combustible. Finely dispersed particles form explosive mixtures in air. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Suitable extinguishing media: dry chemical, CO₂.

UNSUITABLE EXTINGUISHING MEDIA: Avoid using straight water streams.

5.2 SPECIAL HAZARDS: Ambient fire may liberate hazardous vapours: carbon oxides (CO, CO₂), metal vapours and their oxides

THE SUBSTANCE
OR MIXTURE

5.3 ADVICE FOR FIREFIGHTERS Stay in danger area only with self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

ADVICE FOR NON-EMERGENCY PERSONNEL Evacuate the danger area to safe areas. Ensure adequate ventilation. Observe emergency procedures.

ADVICE FOR EMERGENCY RESPONDERS Wear suitable protective equipment

6.2 ENVIRONMENTAL PRECAUTIONS Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP For small spills wet and wipe up with paper towel and place in container for disposal. For larger spills, cover with sand or other inert absorbent material (peat, sawdust, etc.) and collect in suitable container for disposal. Disposal of contaminated material in accordance with section 13. Wash spillage site thoroughly with soap and water or detergent solution. Do not use compressed air, brooms, or conventional vacuum cleaners to remove particulate from surfaces as this activity can result in elevated exposures to airborne particulate

6.4 REFERENCES TO OTHER SECTIONS See section 8 for personal protective equipment. For disposal, see section 13

SECTION 7: Handling and storage

7.1 PRECAUTIONS FOR SAFE HANDLING Do not ingest. Avoid contact with eyes, skin and clothing. Good industrial hygiene practices should be observed. These measures include good personal practices and management (i.e. regular cleaning with suitable detergents). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not wear contaminated clothing at home.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES Store in a dry, well ventilated place at room temperature

7.3 SPECIFIC END USE(S) Production of jewellery

SECTION 8: Exposure controls/personal protection

8.1 CONTROL PARAMETERS

Metallic nichel

Normal value in fresh water: 3.6ng/l

Normal value in marine water:

8.6ng/l

Normal value for the terrestrial compartment: 29.9 mmol/mol

8.2 EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Never use compressed air to clean work clothing or other surfaces.

EYE/ FACE PROTECTION:

Safety goggles conform to EN166. Do not wear contact lenses. Eye wash stations should be available

SKIN PROTECTION

Handle with gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Recommended material: nitrile rubber 1 - 4 hours (breakthrough time). Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

RESPIRATORY PROTECTION:

Not necessary in well ventilated areas. Required when fumes are generated or in confined environments: use a respirator with an approved filter for organic vapours and dust (type B and P3). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.3. CONTROL OF ENVIRONMENTAL EXPOSURE

Do not let product enter drains

SECTION 9: Physical and chemical properties

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Solid in grains

ODOUR	Odourless
ODOUR THRESHOLD	No data available
PH	Not applicable
MELTING POINT [°C]	>1000
INITIAL BOILING POINT AND BOILING RANGE [°C]	>1300
FLASH POINT [°C]	No data available
EVAPORATION RATE	No data available
FLAMMABILITY (SOLID, GAS)	Not flammable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	No data available
VAPOUR PRESSURE	No data available
VAPOUR DENSITY	No data available
RELATIVE DENSITY [G/CM ³]	7.5-9.0 g/cm ³ at 20°C
WATER SOLUBILITY	Insoluble
PARTITION COEFFICIENT: N-OCTANOL/ WATER	No data available
AUTO-IGNITION TEMPERATURE	Not flammable
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY AT 20°C [CPS]	No data available
EXPLOSIVE PROPERTIES	Dust clouds may be explosive under certain conditions.
OXIDIZING PROPERTIES	No oxidizing properties

SECTION 10: Stability and reactivity

10.1 REACTIVITY	Not reactive
10.2 CHEMICAL STABILITY	Stable under recommended storage conditions

HAZARDOUS REACTIONS

10.4 CONDITIONS TO AVOID	Avoid powder/dust/grain dispersion. Keep away from heat and moisture.
10.5 INCOMPATIBLE MATERIALS	Strong acids
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	In case of fire may be developed: Carbon oxides (CO, CO ₂)

SECTION 11: Toxicological information

11.1 INFORMATIONS ON TOXICOLOGICAL EFFECTS	Exposure can occur through inhalation, in contact with skin or eyes and accidental ingestion
ACUTE DERMAL TOXICITY	Not classified
ACUTE INHALATIVE TOXICITY	Fumes can cause respiratory irritation, coughing, breathing difficulties
ACUTE TOXICITY	Nichel: LD50(oral) >9000mg/Kg Ratto
SKIN CORROSION/IRRITATION	Not classified
SERIOUS EYE DAMAGE/EYE IRRITATION	Not classified
RESPIRATORY OR SKIN SENSITISATION	Sensitizing for the skin
GERM CELL MUTAGENICITY	Not classified (Based on available data, the classification criteria are not met)
CARCINOGENICITY	Suspected of causing cancer
REPRODUCTIVE TOXICITY	Not classified (Based on available data, the classification criteria are not met)
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Not expected to cause organ damage from a single exposure.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Causes damages to organs
ASPIRATION HAZARD	Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1 TOXICITY	Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.
LC50 (FISH-96H)	100 mg/l/96h
EC50 (DAPHNIA-48H)	100 mg/l/48h
EC50 (ALGAE-72H)	0.18 mg/l/72h
12.2 PERSISTENCE AND DEGRADABILITY	Methods for determining the biological degradability are not applicable to inorganic substances.
12.3 BIOACCUMULATIVE POTENTIAL	No data available
12.4 MOBILITY IN SOIL	No data available

SECTION 13: Disposal considerations

13.1 WASTE TREATMENT METHODS

PRODUCT: The material should be recovered for recycling where possible. Disposal of this product should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

CONTAMINATED PACKAGING Drain container thoroughly after use and dispose of the contaminated containers as unused product

SECTION 14: Transport information

14.1 UN NUMBER	///
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)	///
14.4 PACKING GROUP	///
14.5 ENVIRONMENTAL HAZARDS	///
14.6 SPECIAL PRECAUTIONS FOR USERS	No data available

ACCORDING TO ANNEX II OF
MARPOL 73/78 AND THE IBC
CODE

SECTION 15: Regulatory information

15.1 SAFETY, HEALTH AND ENVIRONMENTAL
REGULATIONS/LEGISLATION SPECIFIC FOR THE
SUBSTANCE OR MIXTURE

RELEVANT EU LEGISLATION

AUTHORISATIONS	Not required
SVHC LIST	No ingredients are included in the list
RESTRICTIONS ON USE:	Product Point: 40 Contained substance: Nichel Point: 27
SEVESO III CATEGORY DIR. 2012/18/EU	No category
OTHER EU REGULATIONS:	The product does not contain a substance harmful to the ozone layer, or a POP substance (Persistent Organic Pollutant).
WATER HAZARD CLASS (WGK) (D)	Water hazard class NWG: non-hazardous (WGK, Germany) (Self-classification)
GENERAL LEGISLATION	Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace) Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding). Directives 96/82/CE, 2003/105/CE and 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds ADR ed. 2015 European Agreement concerning the International Carriage of Dangerous Goods by Rail – RID (UNECE)

IMDG Code - 2014 Edition (Amdt.37) (IMO)
Dangerous Goods Regulation 56th edition (IATA)

15.2 CHEMICAL SAFETY
ASSESSMENT

A Chemical Safety Assessment has not been carried out for this product

SECTION 16: Other information

REVISION DATE: 04/11/2019

Revision for adaptation to Regulation (EC) No. 1272/2008.
Prepared in CLP-format: new classification and labelling according to
Regulation (EC) No. 1272/2008.
Reach registration number added, where applicable in sect. 3.2.

ACRONYMS

EC50 Effective Concentration
LC50 Lethal Concentration
LD50 Lethal Dose
IARC International Agency for Research on Cancer
RTECS Registry of Toxic Effects of Chemical Substances
PBT Persistent, bio accumulative and toxic
vPvB Very persistent and very bio accumulative
TSCA US Toxic Substances Control Act
TWA Total Weight Average

SOURCES OF DATA

ECDIN Environmental Chem. Data and Information Network
IARC International Agency for Research on Cancer
IUCLID International Uniform Chemical Information Database
NIOSH National Institute for Occupational Safety and Health
ACGIH American Conference of Governmental Industrial Hygienists

GENERAL INFORMATION ON THE
DRAFTING OF THE DOCUMENT

Safety data sheets (SDS) are only required for substances and mixtures that meet the harmonised criteria for physical, health or environmental hazards. Since this product does not meet these criteria, a SDS according to 453/2010/EC is not issued.
The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. Final determination of suitability of any material is the sole responsibility of the user.