CODE: RLG ER

PRODUCT SAFETY INFORMATION SHEET

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

Safety data sheets (SDS) are only required for substances and mixtures that meet the harmonized criteria for physical, health or environmental hazards. Since this product does not meet these criteria, an SDS according to 453/2010/EC is not issued. In accordance with REACH article 31(5), safety data sheets shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market. This obligation, however, only applies for hazard-classified products which require a formal SDS. Since this product is not hazard-classified, this product safety information (PSI) sheet is, in accordance with current regulation, provided in English language only. Moreover, since this product is not classified as dangerous, there is no requirement for exposure scenarios. However, in order to communicate relevant HSE (health, safety and environmental) information, this product safety information (PSI) sheet is provided instead, on a voluntary basis and without any legal obligation, based on the scheme of 16 points of a safety data sheet, in order to allow proper use of the product.

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

1.1 PRODUCT IDENTIFIERS / PRODUCT NAME	RLG ER
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Master alloy in drops, for jewellery 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	This mixture is not classified as hazardous to health or the environment according to regulation No. (EC) 1272/2008 [CLP].

2.2. LABEL ELEMENTS

PICTOGRAMS	Not required
SIGNAL WORD	Not required
HAZARD STATEMENTS	Not required
PRECAUTIONARY STATEMENTS	Avoid breathing dust/fume
SUPPLEMENTAL HAZARD STATEMENTS	Not applicable
CONTAINS	Not applicable

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	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

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, CO_2, water spray or foam.
UNSUITABLE EXTINGUISHING MEDIA	Avoid using straight water streams.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	Ambient fire may liberate hazardous vapours: carbon oxides (CO, CO_2), metal vapours and their oxides
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

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS	Component: Particulates not otherwise regulated (Total dust) Source: ACGIH TLV-TWA: 10 mg/m³ (inhalable particles) Health factors and target organs: eye, skin and respiratory irritation. Source US OSHA PEL-TWA (8 h) 15 mg/m3 Health factors and target organs: lung disease. Component: Copper (as Cu) Source US OSHA PEL-TWA 0,1 mg/m3 (fume) 1 mg/m3 (dust and mist) Source US NIOSH REL-TWA 0,1 mg/m3 (fume) 1 mg/m3 (dust and mist)
RECOMMENDED MONITORING PROCEDURES	This product contains ingredients with exposure limits. Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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.
BODY PROTECTION	Not necessary
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]	>1150
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]	7.5-8.5 g/cm3 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
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	No hazardous reactions expected
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 ORAL TOXICITY	May be harmful if swallowed: possible abdominal pain, vomiting, nausea
SKIN CORROSION/IRRITATION	Not classified
SERIOUS EYE DAMAGE/EYE IRRITATION	Not classified
RESPIRATORY OR SKIN SENSITISATION	Not classified (Based on available data, the classification criteria are not met)
GERM CELL MUTAGENICITY	Not classified (Based on available data, the classification criteria are not met)
CARCINOGENICITY	No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
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	Not expected to cause organ damage from prolonged or repeated exposure
ASPIRATION HAZARD	Not classified (Based on available data, the classification criteria are not met)
LD50 ORAL (RAT)	> 2000 mg/kg (estimated on the basis of the components)
LD50 DERMAL (RABBIT)	> 2000 mg/kg (estimated on the basis of the components)
LC50 INHALATION (RAT)	> 20 mg/l, 4 h vapours (estimated on the basis of the components). > 5 mg/l, 4 h dust (estimated on the basis of the components).
SIGNS AND SYMPTOMS OF EXPOSURE	No data available
FURTHER INFORMATION	No data available

SECTION 12: Ecological information

12.1 TOXICITY	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No. 1272/2008. This product is not classified as dangerous for the environment.
LC50 (FISH-96H)	No data available
EC50 (DAPHNIA-48H)	No data available
EC50 (ALGAE-72H)	No data available
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	Insoluble in water
12.5 RESULTS OF PBT AND VPVB ASSESSMENT	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 OTHER ADVERSE EFFECTS	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 at all times 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
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not applicable

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:	No restrictions
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 LD 50 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.