

SAFETY DATA SHEET

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

1.1. Product identifier

Product Name	Tiranti No2 Lead Free Pewter Low Melt Alloy Alloy Sn96.7-Cu0.2-Bi3.16-Ag0.16
Product No.	803-810, 803-820, 803-830
Product type	Solid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Not applicable.
Uses advised against	Not applicable.

1.3. Details of the supplier of the safety data sheet

Supplier	PotteryCrafts Ltd., Campbell Road, Stoke on Trent ST4 4ET. Tel 44 (0)1782 745000 sales@pottery crafts.co.uk
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1.4. Emergency telephone number

+44(0)1782 745000 (Office Hours 10:00-15:30)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2. Label elements

Signal word:	No signal word
Hazard statement(s)	No known significant effects or critical hazards.
Precautionary statement(s)	
Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable

Supplemental label elements Not applicable

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable

Special packaging requirements

Containers to be fitted with child-resistant fastenings Not applicable

Tactile warning of danger Not applicable

2.3. Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Description of Material: Mixture

3.2. Mixtures

Product/ingredient name	Identifiers	%	Classification	Type
Tin	REACH#: 01-2119486474-28 EC: 231-141-8 CAS: 7440-31-5	90	Not classified See Section 16 for the full text of the H statements declared above.	(1)

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

(1) Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

Self-protection of the first aider No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2. Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact No specific data

Inhalation No specific data

Skin contact No specific data

Ingestion No specific data

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture:

Hazards from the substance or mixture.

No specific fire or explosion hazard.

Hazardous combustion products

Decomposition products may include the following materials: metal oxide/oxides

5.3 Advice for firefighters:

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up:

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for Safe Handling:

Protective measures

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage including any incompatibilities:

Do not store in unlabelled containers. Keep container tightly closed. Keep away from food, drinks and animal food. Store in a cool/ambient, dry and well-ventilated place away from sources of heat or UV.

Storage life – 3 months from date of despatch (to maintain quality – not safety related)

7.3 Specific end uses:

Recommendations

Not available

Industrial sector specific solutions

Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1 Occupational exposure limits

Product/ingredient name	Exposure limit values
Tin	EH40/2005 WELs (United Kingdom (UK)). TWA: 2 mg/m ³ , (As Sn) 8 hours. STEL: 4 mg/m ³ , (As Sn) 15 hours.

Recommended monitoring procedures If 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

DNELs/DMELs.

Product/ingredient name	Type	Exposure	Value	Population	Effects
Tin	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term inhalation	17 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	71 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	80 mg/kg bw/day	General population	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

a) Physical state:	Solid
b) Colour:	Silver-Grey
c) Odour:	Odourless
d) Melting point/freezing point:	138 C
e) Boiling point or initial boiling point and boiling range:	not available
f) Flammability:	not available
g) Lower and upper explosion limit:	not applicable
h) Flash point	product does not sustain combustion
i) Auto ignition temperature	not applicable
j) Decomposition Temperature	not available
k) pH	not applicable
l) Kinematic Viscosity	not applicable

m) Solubility		not applicable
n) Partition coefficient: n octanol/water		not available
o) Vapour pressure		not available
p) Density and/or relative density		8.77
q) Relative vapour density		not applicable – solid
r) Explosive properties	non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts	
s) Oxidising properties		not available
t) Particle characteristics	Median particle size	not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

No specific data

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity	Conclusion/Summary	Not available
Acute toxicity estimates	NIA	
Irritation/Corrosion	Conclusion/Summary	Not available
Sensitization	Conclusion/Summary	Not available
Mutagenicity	Conclusion/Summary	Not available
Carcinogenicity	Conclusion/Summary	
	Overexposure to fumes may cause irritation to the respiratory tract, digestive system and to the eyes. Overexposure to tin oxide fumes may result in benign pneumoconiosis (stannosis).	
Reproductive toxicity	Conclusion/Summary	Not available
Teratogenicity	Conclusion/Summary	Not available
Specific target organ toxicity (single exposure)		Not available
Specific target organ toxicity (repeated exposure)		Not available
Aspiration hazard		Not available
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Inhalation Routes of entry not anticipated: Dermal	

Potential acute health effects

Eye contact	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

Symptoms rated to the physical, chemical and toxicological characteristics

Eye contact	No specific data
Inhalation	No specific data
Skin contact	No specific data
Ingestion	No specific data

Delayed and immediate effects and chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects	Not available
Potential delayed effects	Not available

Long term exposure

Potential immediate effects	Not available
Potential delayed effects	Not available

Potential chronic health effects Not available

Conclusion/Summary Not available

General	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Reproductive toxicity	No known significant effects or critical hazards

11.2.2 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Conclusion/Summary: Not available

12.2. Persistence and degradability

Conclusion/Summary: Metallic oxide fumes are toxic

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.

Mobility: Not available

12.4 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods:

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous Waste

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

13.1.1 Product/Packaging disposal

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible

Special precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA/ICAO
14.1 UN or ID number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 UN Proper shipping name				
14.3 Transport Hazard Class(es)				
14.4 Packing group				
14.5 Environmental Hazards	No	No	No	No

14.6 Special Precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments- Additional shipping information
NOT REGULATED FOR TRANSPORTATION IN SOLID MASSIVE FORMS (INGOT, BAR, ETC)

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1 UK (GB) /REACH

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Not applicable

EU regulations

Industrial emissions

Listed

(integrated pollution prevention and control) - Air

Industrial emissions

Listed

(integrated pollution prevention and control) - Water

15.2. Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

ATE= Acute Toxicity Estimate

GB CLP= UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement= GB CLP-specific Hazard statement N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN =

REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Not classified.

Full text of abbreviated H statements

Not applicable.



Full text of classifications

Not applicable.

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