

Safety Data Sheet



Solder Spheres - Alloy Sn10Pb90


Revision Date: 10/02/19

Supersedes: 05/05/18

SECTION 1: Identification

GHS Product Identifier	: Sphere Alloy Sn10Pb90 :
Other Means of Identification	Leaded Solder Sphere
Label Reference #	: Not Available
Product Type	: Solid
Relevant Identified Uses of substance or mixture and uses advised against	: Not Applicable
Supplier Details	: EasySpheres Inc. 12012 SW Powell Butte Hwy Powell Butte, OR 97753 (858) 486-4068
Emergency Telephone Number	: (858)486-4068

SECTION 2: Hazards Identification

OSHA / HCS Status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 2
GHS Label Elements	
Hazard Pictograms	: 
Signal Word	: Warning
Hazard Statements	: Suspected of causing cancer.
Precautionary Statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Response	: If exposed or concerned: Get medical attention.
Storage	: Store Locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards Not Otherwise Classified	: None Known

SECTION 3: Composition / Information on Ingredients

Substance / Mixture : Mixture
Other Means of Identification : Solder Sphere

CAS Number/Other Identifiers

CAS Number : Not Applicable
Product Code : Not Available

Ingredient Name	%	CAS Number
Lead	90-95	7439-92-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First Aid Measures**Description of Necessary First Aid Measures**

- Eye Contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check and remove any contact lenses. Continue to rinse for at least 10 minutes Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.
- Skin Contact** : Flush contaminated skin with plenty of water. Cuts should be treated promptly and covered. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes before reuse.
- Ingestion** : Wash mouth out with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get immediate attention immediately. Maintain an open airway. Loosen thigh clothing such as a collar, tie, belt or waistband.

Most Important Symptoms / Effects, Acute and Delayed**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

SECTION 4: First Aid Measures

Over-Exposure Signs / Symptoms

Eye Contact	: No specific data
Inhalation	: No specific data
Skin Contact	: No specific data
Ingestion	: No specific data

Indication of immediate Medical Attention and special treatment needed, if Necessary

Notes to Physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments	: No Specific Treatment
Protection of First Aid Personnel	: No action shall be taken involving any personal risk or without suitable training.

See toxicological Information (Section 11)

SECTION 5: Fire-Fighting Measures

Hazardous Thermal Decomposition Products	: Decomposition products may include the following materials: Metal Oxides
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
Special Protective Equipment for Fire-Fighters	: No special protection is required.

SECTION 6: Accidental Release Measures

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. 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".
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).

Methods and Materials for containment and Cleaning up

Small Spill	: Restock Safely. Take care with items that are sharp or heavy.
Large Spill	: Restock Safely. Take care with items that are sharp or heavy. Note: See section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: Handling and Storage

Precautions for Safe Handling

- Protective Measures** : Put on appropriate personal protective equipment (see section 8). Take care with items that are sharp or heavy.
- Advice on General Occupational Hygiene Conditions for Safe Storage, Including any incompatibilities** : Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering. Store in accordance with local regulations.

SECTION 8: Exposure Controls / Personal Protection

Control Parameters

Occupational Exposure Limits

Ingredient name	Exposure Limits
	ACGIH TLV (United States, 3/20/15) TWA: 0.05 mg/M ³ , (as Pb) 8 Hours.
	NIOSH REL (United States, 10/2013) TWA: 0.05 mg/m ³ 10 hours.
	OSHA PEL (United States, 2/2013) TWA: ug/m ³ (as Pb) 8 hours.
	OSHA PEL 1989 (United States 3/1989) TWA: 50 ug/M ³ (as Pb) 8 hours.

- Appropriate Engineering Controls** : No special ventilation requirements
- Environmental Exposure Controls** : Emissions from 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.

Individual Protection Measures

- Hygiene Measures** : Wash thoroughly after handling
- 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** : Use strong, cut-resistant gloves suitable for handling metals.
- 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 measure 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 : Not Applicable.

SECTION 9: Physical and Chemical Properties

Appearance

Physical State	: Solid
Color	: Silver - Grey
Odor	: Not Available
Odor Threshold	: Not Available
PH	: Not Available
Melting Point	: 275-302 degrees C
Boiling Point	: Not Available
Flash Point	: Not Available
Evaporation Rate	: Not Available
Flammability (Solid, Gas)	: Not Available
Lower and upper Explosive (flammable) Limits	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not Available
Relative Density	
Solubility	: Insoluble in the following materials: cold water, hot water, methanol, diethyl ether n-octanol and acetone.
Partition Coefficient: n-octanol/water	: Not Available
Auto-Ignition Temperature	: Not Available
Decomposition Temperature	: Not Available
Viscosity	: Not Available

SECTION 10: Stability and Reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	: The product is stable
Possibility of Hazardous Reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	: No specific data
Incompatible Materials	: No specific data
Hazardous Decomposition Products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Information about Toxicological effects

Acute Toxicity	: Not Available
Irritation / Corrosion	: Not Available
Sensitization	: Not Available
Mutagenicity	: Not Available
Carcinogenicity	: Not Available
Conclusion/Summary	: Human: LEAD crosses the placental barrier. CHRONIC OVEREXPOSURE EFFECTS; Increase of LEAD LEVEL in blood, muscle soreness, metallic taste, abdominal cramps, headaches.

Classification

Product/ Ingredient Name	OSHA	IARC	NTP
lead	-	2B	Reasonably anticipated to be carcinogenic to humans.

Reproductive Toxicity	: Not Available
Teratogenicity	: Not Available
Specific Target Organ Toxicity (Single Exposure)	: Not Available
Specific Target Organ Toxicity (Repeated Exposure)	: Not Available
Aspiration Hazard	: Not Available

Information on likely routes of exposure : 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 related 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

SECTION 11: Toxicological Information (continued)**Delayed and Immediate Effects and also 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

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level or exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental Effects : No known significant effects or critical hazards.

Fertility Effects : No known significant effects or critical hazards.

Numerical Measures of Toxicity Acute Toxicity Estimates : Not Available

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**Toxicity** : Not Available

Product /Ingredient Name	Result	Species	Exposure
lead	Acute EC50 105ppb Marine Water	Algae - Exponential growth phase	72 hours
	Acute EC50 0.489 mg/l Marine Water	Algae - Ulva pertusa	96 hours
	Acute EC50 8000ug/l Fresh Water	Aquatic plants - Lemna minor	4 days
	Acute EC50 530ug/l Fresh Water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 4400ug/l Fresh Water	Daphnia - Daphnia Magna	48 hours
	Acute LC50 0.44ppm Fresh Water	Fish - Cyprinus Carpio	96 hours
	Chronic NOEC 0.25 mg/l Marine Water	Algae - Ulva perusa	96 hours
	Chronic NOEC 0.03 ug/l Marine Water	fish- Cyprinus carpio	4 weeks

Persistence and : Not Available**Degradability****Bio accumulative Potential** : Not Available**Mobility in Soil****Soil / Water Partition** : Not Available**Coefficient (K_{oc})****Other Adverse Effects** : No known significant effects or critical hazards.**SECTION 13: Disposal Considerations****Disposal Methods**

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 the 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. Waste packaging should be recycled. Incinerator or landfill should only be considered when recycling is not feasible. The material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

SECTION 14: Transport Information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	-	-	-	-	-	-
Transport Hazard Class(es)	-	-	-	-	-	-
Packing Group	-	-	-	-	-	-
Environmental Hazards	No	No	No	No	No	No
Additional Information	-	-	-	-	-	-

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 even of an accident or spillage.

Transport in Bulk According to Annex II of MARPOL and the IBC Code

: Not Available

SECTION 15: Regulatory Information

U.S. Federal Regulations

: TSCA 6 proposed risk management : lead

TSCA 8(a) CDR Exempt/Partial exemption: Not Determined

TSCA 12(b) annual export notification: lead

All components are listed or exempted.

Clean Water Act (CWA) 307: lead

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)

: Not listed

Clean Air Act Section 602 Class I Substances

: Not Listed

Clean Air Act Section 602 Class II Substances

: Not Listed

DEA List I Chemicals (Precursor Chemicals)

: Not Listed

DEA List II Chemicals (Essential Chemicals)

: Not Listed

SARA 302/304

Composition/Information on Ingredients : No Products were found

SECTION 15: Regulatory Information (continued)**SARA311/312 Classification** : Delayed (chronic) health hazard

Name	%	Fire Hazard	reactive	immediate (acute) health hazard	Delayed (chronic) health Hazard
Lead	60	No	No	No	Yes

Composition/Information on Ingredients : No Products were found

SARA 313	Product Name	CAS Number	%
Form R - Reporting Requirements	Lead	7439-92-1	90-95

SARA 313 Notification must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State Regulations**Massachusetts** : The following components are listed: TIN; LEAD**New York** : The following components are listed: LEAD**New Jersey** : The following components are listed: TIN; LEAD**Pennsylvania** : The following components are listed: TIN; LEAD**California Prop. 65****WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
lead	Yes	Yes	15ug/day (ingestion) 0.0005ug/day (inhalation)	Yes

International Regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals** : Not Listed**Montreal Protocol (Annexes A, B,C,E)** : Not Listed**Stockholm Convention on Persistent Organic Pollutants** : Not Listed**Rotterdam Convention on Prior Inform Consent (PIC)** : Not Listed**UNECE Aarhus Protocol on POPs and Heavy Metals** : Not Listed

Ingredient Name	List Name	Status
lead	Heavy Metals - Annex 1	listed

SECTION 15: Regulatory Information (continued)

International Lists

National Inventory

Australia	: All components are listed or exempted
Canada	: All components are listed or exempted
China	: All components are listed or exempted
Europe	: All components are listed or exempted
Japan	: Japan Inventory (ENCS) and (ISHL): Not Determined
Malaysia	: Not determined
New Zealand	: All components are listed or exempted
Philippines	: All components are listed or exempted
Republic of Korea	: All components are listed or exempted
Taiwan	: All components are listed or exempted

SECTION 16: Other Information

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright 2001, National Fire protection Association, Quincy MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA49 and NFPA325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

SECTION 16: Other Information (continued)**HISTORY**

Date of printing : 10/02/19

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Version : 2.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BUFF = Bio concentration Factor
GHS = Globally Harmonized System of Classification and Labeling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = Logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution from Ships, 1973 as modified by Protocol of 1978 ("Marpol" = marine pollution)
UN = United Nations

References : Chemtox Database

Notice to Reader

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