



Solder Spheres - Alloy Sn96.5Ag3.0Cu0.5 (SAC305)

Revision Date: 10/03/2019

Supersedes: 01/08/2017

SECTION 1: Identification**GHS Product Identifier** : Sphere Alloy Sn96.5 Ag3.0Cu0.5**Other Means of Identification** : Not Available**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** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.**Classification of the substance or mixture** : Not Classified**GHS Label Elements****Signal Word** : No Signal Word**Hazard Statements** : No Known Significant Effects or Critical Hazards.**Precautionary Statements****Prevention** : Not Applicable**Response** : Not Applicable**Storage** : Not Applicable**Disposal** : Not Applicable**Hazards Not Otherwise Classified** : None Known

SECTION 3: Composition / Information on Ingredients

SDS Sphere SAC305

Substance / Mixture : Mixture
Other Means of Identification : Not Available

CAS Number/Other Identifiers

CAS Number : Not Applicable
Product Code : Not Available

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 : Get medical attention if any damage to the eye is caused by the metal
Inhalation : Not Applicable
Skin Contact : Flush contaminated skin with plenty of water. Cuts should be treated promptly and covered
Ingestion : Not Applicable

Most Important Symptoms / Effects, Acute and Delayed

Potential Acute Health Effects

Eye Contact : Not Applicable
Inhalation : Not Applicable
Skin Contact : No Known significant effects or critical hazards
Ingestion : Not Applicable

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 SDS Sphere SAC305
- 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** : No Specific Hazard

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** : 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.
- Conditions for Safe Storage, Including any incompatibilities** : Store in accordance with local regulations.

SECTION 8: Exposure Controls / Personal Protection

SDS Sphere SAC305

Control Parameters

Occupational Exposure Limits : None

Appropriate Engineering Controls : No special ventilation requirements

Environmental Exposure Controls : Not Applicable

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 : Not Available

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

SECTION 9: Physical and Chemical Properties (continued)

SDS Sphere SAC305

Vapor Density	: Not Available
Relative Density	: Not Available
Solubility	: Not Available
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
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	: Not Available

SECTION 11: Toxicological Information (continued)

SDS Sphere SAC305

Potential Acute Health Effects

- Eye Contact** : Not Applicable
- Inhalation** : Not Applicable
- Skin Contact** : No known significant effects or critical hazards.
- Ingestion** : Not Applicable

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

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 : No known significant effects or critical hazards.

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

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

SDS Sphere SAC305

Toxicity : Not Available

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 8(a) CDR Exempt/Partial exemption: Not Determined** SDS Sphere SAC305

All components are listed or exempted.

Clean Water Act (CWA) 307: Silver, Copper

Clean Air Act Section 112 : Listed

(b)Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not Listed

Class I Substances

Clean Air Act Section 602 : Not Listed

Class II Substances

DEA List I Chemicals : Not Listed

(Precursor Chemicals)

DEA List II Chemicals : Not Listed

(Essential Chemicals)

SARA 302/304

Composition/Information on Ingredients : No Products were found

SARA 304 RQ : Not Applicable

SARA311/312 Classification : Not Applicable

Composition/Information on Ingredients : No Products were found

SARA 313	Product Name	CAS Number	%
Form R - Reporting Requirements	Silver	7440-22-4	0.1 - 10
Supplier Notification	Silver	744-22-4	0.1 - 10

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; SILVER

New York : The following components are listed: SILVER

New Jersey : The following components are listed: TIN; SILVER

Pennsylvania : The following components are listed: TIN; SILVER

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

SECTION 15: Regulatory Information (continued)

SDS Sphere SAC305

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	0
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.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright 1997, National Fire Protection Association, Quincy MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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)

SDS Sphere SAC305

HISTORY

Date of printing : 10/03/2019
Date of revision : 10/03/2019
Date of previous issue : 01/08/17
Version : 2.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = 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 : Not Available

Notice to Reader

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.