

MSDS Report

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Samples Amorphous silicon solar cell (SC)

Client Unit SHENZHEN SUN MOON CIRCLE SOLAR
ENERGY INDUSTRIAL CO., LTD

Client Address F3 8-8B, TIAN AN CYBER PARK,
SHENZHEN



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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Amorphous silicon solar cell (SC)

Trade Name: Solar battery

Sample Code: SC

Manufacture: SHENZHEN SUN MOON CIRCLE SOLAR ENERGY INDUSTRIAL CO., LTD

Address: F3 8-8B, TIAN AN CYBER PARK, SHENZHEN

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Section 2 - Composition, Information on Ingredients

Chemical Name	CAS No.	In % by Weight
Glass	---	80
Amorphous silicon	90337-93-2	0.1
Carbon paste	---	8
Copper pulp	---	5
Protection coating	---	6.9

Section 3 - Hazards Identification

No harm in normal use. At long industrial condition, may cause eye, skin or respiratory tract irritation. Risk of exposure occurs only if the battery is mechanically or electrically abused.

Caution! Put Amorphous silicon solar cell (SC) into fire and Molten material will produce thermal burns.

Section 4 - First Aid Measures

Eyes

If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical aid.

Skin

If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin. Get medical aid.

Inhalation

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion

Seek medical advice.

Note to Physician

Burns should be treated as thermal burns. The material will come off as healing occurs, therefore, immediate removal from the skin is not necessary.

Section 5 - Fire Fighting Measures

Extinguishing Media

Water, CO₂, sand, dry chemical.

Firefighting

Wear self contained breathing apparatus and protective clothing. Do not put this product into fire.

Section 6 - Accidental Release Measures

Steps to be Taken in case Material is Released or Spilled

Wear gloves to pick up broken, damaged Amorphous silicon solar cell, transfer to wastebasket for disposal.

Waste Disposal Method

Dispose of in accordance with all Federal, State and Local rules and regulations.

Precautions-Handling/Storing

Avoid physical damage. Handle with care.

Section 7 - Handling and Storage

Please do not use sharp objects scraping the surface of solar batteries

Handling

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Keep away from fire. Avoid mechanical or electrical abuse.

Storage

Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided.

Section 8 - Exposure Controls, Personal Protection

No need in normal use. If at long industrial contact term or on fire, Reference as follows

Engineering Controls

In a dry, well-ventilated area. Use an approved particulate respirator in dusty or misty atmospheres.

Personal Protection

Safety glasses, gloves and lab coat.

Personal Protection is recommended for venting batteries

Respiratory Protection, Protective Gloves, Protective Clothing and Safety Glass with side shields.

Section 9 - Physical and Chemical Properties

Appearance characters: Dark red with odourless rectangular solid.

Chemical Uses: Solar battery.

Section 10 - Stability and Reactivity**Stability**

Stable

Conditions to Avoid

Heating, mechanical abuse and electrical abuse.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

No Toxicity Data.

Section 12 - Ecological Information

When promptly used or disposed the Amorphous silicon solar cell does not present environmental hazard. When disposed, keep away from water, rain and snow.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Dispose of the Amorphous silicon solar cell in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

Section 14 - Transport Information

This product is Not regulated by USDOT, ICAO/IATA, or IMO as a hazardous material or dangerous goods.

Separate Amorphous silicon solar cell when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

Transport Fashion: By air, by sea, by railway, by highway.

Packaging Information: Plastic tray/ pcs.

Section 15 - Regulatory Information

U.S. Federal Regulations

TSCA Toxic Substance Control Act

SARA Title III (Section 302/311/312/313)

RCRA Resource Conservation and Recovery Act

European/International Regulations

European Labeling In Accordance with EC Directives

Law Information

In accordance with all Federal, State and Local laws.

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Section 16 - Additional Information

The above information is based on the data of which we are aware and believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the data hereof may subject to modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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