



MATERIALS SAFETY DATA SHEET

Product:

S-30

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SDS No.: SP811-01

Version: 4.0

Effective Date : 2021/7/12

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: S-30
Supplier : Matrix (Guangzhou) Metamaterials Co.,Ltd
No.4 XinAn Road Yong He,
Guangzhou Economic &Technological,
Development District, Guangzhou 511356,P.R.China
Customer Service : +86 (0)20 3222 2632 (9:00 AM – 5:30PM)
Emergency phone number: +86 (0)13922456120

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS #	% by weight
Triphenyl Antimony	603-36-1	≥ 99.0 %

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)
The components of this product are all on the TSCA Inventory list.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White to tan crystals, with no characteristic odor.
WARNING!
HARMFUL IF SWALLOWED.

POTENTIAL HEALTH EFFECTS: Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material.
Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, no more than slightly toxic if absorbed through skin, practically non-irritating to eyes and slightly irritating to non-irritating to skin.

4. FIRST AID MEASURES

AFTER INHALATION: Remove from exposure area to fresh air immediately.
AFTER SKIN CONTACT: Flush the area with plenty of water.
Remove material from clothing. Washclothing before reuse.



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AFTER EYE CONTACT:

Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes).

AFTER SWALLOWED:

Induce vomiting immediately as directed by medical personnel.
Get medical attention.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, carbon dioxide, foam or dry chemical.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Consult OSHA Standard 29 CFR § 1910.156(f) to determine required type equipment. Fire fighting equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK:

Stop the leak, if possible. Ventilate the space involved. Contain, sweepup, place in container for disposal.

Shut off or remove all ignition sources. Prevent waterway contamination. Construct a dike to prevent spreading. Collect run-off and transfer to drums or tanks for later disposal. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Clean up procedures: Transfer to containers in preparation for later disposal. Avoid generation of vapors.

Place in non-sparking containers for recovery or disposal.

Remove from spill location. Decontaminate area.

7. HANDLING & STORAGE

HANDLING:

Do not taste or swallow. Wash thoroughly after handling.

STORAGE:

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROLS:

Investigate engineering techniques to reduce exposures below Airborne exposure limits. Provide ventilation if necessary to control



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exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

EYE/FACE PROTECTION:

Use good industrial practice to avoid eye contact.

SKIN PROTECTION:

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended.

Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION:

Avoid breathing dust. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. Consult OSHA Standard (29 CFR § 1910.10) to determine required type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

<u>Exposure Limit</u>		<u>Value</u>
Triphenyl antimony		
ACGIH TWA	-Antimony compounds, as Sb	0.5 mg/m ³
OSHA TWA PEL	-Antimony compounds, as Sb	0.5 mg/m ³

- Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9. PHYSICAL & CHEMICAL DATA

Appearance/Odor:	White to tan crystals, with no characteristic odor.
pH:	N/A
BP/BP Range:	360 deg C
MP/MP Range:	50 deg C
Flash Point:	N/A
Flammability:	N/A
Autoignition Temp:	N/A



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Oxidizing Properties:	N/A
Explosive Properties:	N/A
Explosion Limits:	N/A
Vapor Pressure:	N/A
SG/Density :	1.49
Partition Coefficient:	N/A
Viscosity:	N/A
Vapor Density:	N/A
Saturated Vapor Conc.:	N/A
Evaporation Rate:	N/A
Bulk Density :	N/A
Decomposition Temp:	N/A
Solvent Content:	N/A
Water Content:	N/A
Surface Tension:	N/A
Conductivity:	N/A
Miscellaneous Data :	N/A
Solubility:	Insoluble in water

10. STABILITY & REACTIVITY

STABILITY: This material is chemically stable under normal and anticipated storage and handling conditions.

HAZARDOUS DECOMPOSITION PRODUCTS:

None known

HAZARDOUS POLYMERIZATION: Does not occur.

INCOMPATIBILITY: None known

11. TOXICOLOGICAL INFORMATION

Single exposure (acute) studies indicate:

Oral - Moderately Toxic to Rats (LD50 82.5-187 mg/kg)

Dermal - No More Than Slightly Toxic to Rats (LD50 >2,000 mg/kg)

Eye Irritation - Practically Non-irritating to Rabbits (0.5/110)

Skin Irritation - Slightly Irritating to Non-irritating to Rabbits

(24-hr exposure, 0.0-1.2/8.0)

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Developmental effects were reported in fruit flies following larval exposure.



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CHEMICAL FATE INFORMATION:

No data are available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Recover, reclaim or recycle when practical.
Dispose of in an approved landfill if allowed locally.
Comply with federal, state, and local regulations.
Dispose of in a permitted waste management facility if incineration or landfill is not practical.

14. TRANSPORT INFORMATION

DOT Name : Toxic solid, organic, N.O.S.
DOT Technical Name : Triphenyl Antimony
DOT Hazard Class: 6.1
UN Number: UN2811
DOT Packing Group : PG III
RQ: NE

15. REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y	Fire	N
Delayed (Chronic) Health N	Reactive	N
	Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities	<u>CERCLA RQ</u>	<u>SARA TPQ</u>
Triphenyl Antimony	NE	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2
Triphenyl Antimony

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.
Triphenyl Antimony

Pennsylvania Environmental Hazard



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This product does contain the following chemical(s), as indicated below,
currently on the Pennsylvania Environmental Hazard List.

Triphenyl Antimony

16. OTHER INFORMATION

KEY

NE= Not Established

NA= Not Applicable

Matrix believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Matrix, Matrix expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.