



## SAFETY DATA SHEET

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SDS No.: SP809-01 Version:4.0 Effective Date: 2021-7-12

### 01-PRODUCT AND COMPANY IDENTIFICATION

Product Name: Catalyst S-24  
Chemical Family: Antimony compound  
Chemical Formula:  $Sb_2(O_2(CH_2)_2)_3$   
Chemical Name: Antimony tris-ethylene glycoxide  
EPA Reg Num: N/A  
Product Use: Catalyst  
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 )

### 02-COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS No	Typical (%)	OSHA
Antimony tris-ethylene glycoxide	29736-75-2	>98	Y

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)  
This material is classified as hazardous under Federal OSHA regulation.

### 03-HAZARDS IDENTIFICATION

#### Emergency Overview

**White to off white crystals with no characteristic odor.**  
**WARNING!**  
**CAUSES EYE IRRITATION.**

#### Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. No specific information on the health effects of this material was found in a search of the scientific literature. However, upon contact this material may be irritating. Therefore, use of appropriate good industrial hygiene and safety precautions to control exposure is recommended when handling or using this material.



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### 04-FIRST AID MEASURES

**IF IN EYES:** Immediately flush with plenty of water for at least 15minutes. Get medical attention.

**IN CASE OF CONTACT:** Immediately flush the area with plenty of water. Remove contaminated clothing and shoes. Get medical attention.  
Wash clothing before reuse. Thoroughly clean shoes before reuse.

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

**IF INHALED:** remove to fresh air. If breathing is difficult, get medical attention.

### 05- FIRE FIGHTING MEASURES

#### Fire and Explosive Properties

Auto-Ignition Temperature NE  
Flash Point NE Flash Point Method  
Flammable Limits- Upper NE  
Lower NE

**Extinguishing Media** Use water spray, carbon dioxide, foam or dry chemical.

**Fire Fighting Instructions** Contain run-off from fire. 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). Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and Explosion Hazards** When burned, the following hazardous products of combustion can occur: Carbon monoxide and Carbon dioxide Antimony oxides. Avoid breathing fumes from fire exposed material.

### 06-ACCIDENTAL RELEASE MEASURES

**In Case of Spill or Leak** Stop the leak, if possible. Ventilate the space involved. Contain, Sweep up, place in container for disposal. Prevent waterway contamination. Construct a dike to prevent spreading. Collect run-off water 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



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environmental permits.  
Clean up procedures: Transfer to containers, in preparation for later disposal. Avoid generation of dusts. Remove from spill location. Flush area with water spray, collect rinsate.

## 07-HANDLING & STORAGE

**Handling** Avoid contact with eyes. 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.

## 08-EXPOSURE CONTROLS& PERSONAL PROTECTION

**Engineering Controls** Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Eye / Face Protection** Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

**Skin Protection** Minimize skin contamination by following good industrial hygiene practice. Wearing rubber gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**Respiratory Protection** Where airborne exposure is likely, use NIOSH approved N 95 particulate respirator. If exposures cannot be kept at a minimum with engineering controls, use NIOSH approved respiratory protection equipment as noted above. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be potential for significant exposure, 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

Exposure Limit		Value
<b>Antimony tris-ethylene glycoxide</b>		
ACGIH TWA	-Antimony compounds, as Sb	0.5 mg/m3
OSHA TWA PEL	-Antimony compounds, as Sb	0.5 mg/m3



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- 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 off white crystals with no characteristic odor.
pH	NE
Specific Gravity	NE
Vapor Pressure	NE
Vapor Density	NE
Melting Point	NA
Freezing Point	NA
Boiling Point	NA
Solubility In Water	Insoluble
Particle Size	NA
Percent Volatile	NE
Molecular Weight	423.67
Other Physical Data	NE

### 10-STABILITY & REACTIVITY

<b>Stability</b>	This material is chemically stable under normal and anticipated storage and handling conditions.
<b>Hazardous Polymerization</b>	Does not occur.
<b>Incompatibility</b>	None known
<b>Hazardous Decomposition Products</b>	None known

### 11-TOXICOLOGICAL INFORMATION

<b>Toxicological Information</b>	No data are available.
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### 12-ECOLOGICAL INFORMATION

**Ecotoxicological Information** No data are available.

**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	Not regulated
DOT Technical Name	NA
DOT Hazard Class	NA
UN Number	NA
DOT Packing Group	PG NA
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

#### Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Antimony tris-ethylene glycoxide	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 Ammendments and Reauthorization Act of 986 and 40 CFR Part 372. See Section 2 Antimony tris-ethylene glycoxide

#### 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. Antimony tris-ethylene glycoxide



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### 16-OTHER INFORMATION

#### Key words

NE=Not Established

NA= Not Applicable

®=Registered Trademark

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