



SAFETY DATA SHEET

MATERION

1. Product and company identification

Name of the chemical **Copper Phosphide**

Other means of identification

 SDS number 131

 CAS number 12019-57-7

Recommended use of the chemical and restrictions on use

 Recommended use Not available.

 Recommended restrictions None known.

Manufacturer/Importer/Supplier/
Distributor information

 Address 42 Mt. Ebo Road South
 Brewster NY 10509
 United States

 Telephone 1+845.279.0900

E-mail Not available.

Contact person Not available.

Emergency telephone Chemtrec 1+703.527.3887
number

2. Hazards identification

Hazard classification

 Physical hazards Not classified.

 Health hazards Not classified.

 Environmental hazards Not classified.

Label elements

 Symbols None.

 Signal word None.

Hazard statement None.

Precautionary statement

 Prevention Not available.

 Response Not available.

 Storage Not available.

 Disposal Not available.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Substance	CAS Number	Concentration (%)
Copper Phosphide	12019-57-7	99 - 100

4. First aid measures

First aid measures for different exposure routes

 Inhalation Not available.

 Skin contact Not available.

 Eye contact Not available.

 Ingestion Not available.

Most important symptoms and effects Not available.
Personal protection for first-aid responders Not available.
Notes to physician Not available.

5. Fire-fighting measures

Extinguishing media Not available.
Extinguishing media to avoid None.
Specific hazards during fire fighting None.
Special fire fighting procedures None.
Protection of fire-fighters None.

6. Accidental release measures

Personal precautions Not available.
Environmental precautions Not available.
Spill cleanup methods Not available.

7. Handling and storage

Handling Not available.
Storage Not available.

8. Exposure controls/personal protection

Exposure limits

US. ACGIH Threshold Limit Values

Material	Type	Value	Form
Copper Phosphide (CAS 12019-57-7)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Not available.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.
Skin protection
Hand protection Not available.
Other Not available.
Respiratory protection Not available.
Thermal hazards Not available.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Not available.
Color Not available.

Odor Not available.

Odor threshold Not available.

Melting point/freezing point Not available.

pH Not available.

Boiling point, initial boiling point, and boiling range Not available.

Flammability (solid, gas) Not available.

Flash point Not available.

Decomposition temperature Not available.

Auto-ignition temperature	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Evaporation rate	Not available.
Other data	
Molecular formula	Cu ₃ P
Molecular weight	252.59 g/mol

10. Stability and reactivity

Stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Symptoms	Not available.
Information on toxicological effects	
Acute toxicity	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Chronic effects	Not available.

12. Ecological information

Ecotoxicity	No ecotoxicity data noted for the ingredient(s).
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Mobility in soil	Not available.
Other hazardous effects	Not available.

13. Disposal considerations

Disposal instructions	Not available.
Residual waste	Not available.
Contaminated packaging	Not available.
Local disposal regulations	Not available.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

Applicable regulations

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

Priority Management Chemical List (Regulations on Handling Priority Managed Chemicals), as amended

Not listed.

Toxic Chemical Substances (TCS) List (EPA Toxic Substances Notice No. 0960095331E, Tables 1-3, Dec. 17, 2007, as amended)

Not listed.

Hazardous Substances and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations

Copper Phosphide (CAS 12019-57-7)

Class 3: Pyrophoric liquids, Pyrophoric solids, Hydrophobic materials

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

References	Not available.
Issued by	Not available.
Prepared by	Not available.
Issue date	06-12-2019
Revision information	Product and Company Identification: Product Review Composition / Information on Ingredients: Ingredients Transport Information: Material Transportation Information