Trade name: **Twister® Al/Cu Wire Connector**

SECTION 1: Identification

Product identifier: **Twister® Al/Cu Wire Connector**
Synonyms: None available.
Product Code Number: 30-065, 30-165, 30-265, 30-365
SDS number: ID014
Recommended use: Wire Connector.
Recommended restrictions: Uses other than those recommended.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: IDEAL INDUSTRIES, INC.
Company Address: Becker Place,
Sycamore, IL 60178
Company Telephone: Office hours (Mon – Fri)
7AM - 5 PM (CDT)
(815)895-5181
Company Contact Name: Darryl Docter.
Company Contact Email: IDEAL@IDEALINDUSTRIES.COM
Emergency phone number: 24 HOUR EMERGENCY NUMBER:
(815)895-5181.

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards
Not classified as a physical hazard under GHS criteria.

Health hazards
Not classified as a health hazard under normal conditions of use.

Environmental hazards
Not classified as an environmental hazard under GHS criteria.

GHS Signal word: **Not applicable under normal conditions of use.**

GHS Hazard statement(s): **Not applicable under normal conditions of use.**

GHS Hazard symbol(s): **Not applicable under normal conditions of use.**

GHS Precautionary statement(s):

Prevention: Choking hazard. Do not ingest.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.

Response: P314 - Get medical advice/ attention if you feel unwell.

Storage: P102 – Keep away from children

Disposal: P251 – Do not burn

Hazard(s) not otherwise Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:
78% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal/inhalation).

SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	CAS#	Concentration (weight %)
Zinc Dust	7440-66-6	1 - 10 %
Antimony Trioxide	1309-64-4	Less than 0.2%

Note: Antimony Trioxide (approximately 0.2% of total product weight) is a fire retardant that is part of the solid plastic material. Antimony trioxide is not released under normal conditions of use. Antimony trioxide can be released by burning. Antimony trioxide is classified as a carcinogen; see section 11.

Note: The balance of the ingredients are not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid Measures

Description of necessary measures:
Inhalation: No first aid measures usually required. Get medical attention if concerned.
Skin contact: No first aid measures usually required. Get medical attention if concerned.
Eye contact: No first aid measures usually required. Get medical attention if concerned.
Ingestion: Choking Hazard. No first aid measures usually required. Get medical attention if concerned. Do NOT induce vomiting unless directed by medical personnel. Rinse mouth with

water. Never give anything by mouth to an unconscious person. Consult physician or local poison control center.

Most important symptoms/effects, acute and delayed: None normally expected.

Indication of immediate medical attention and special treatment needed: If any symptoms are observed, contact a physician and give them this SDS sheet. If exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Use dry chemical, carbon dioxide or foam.

Unsuitable extinguishing media: Do not use water. Water reacts with zinc dust.

Specific hazards arising from the material**:** Water or foam may cause a frothing reaction. Combustion products - Carbon monoxide, Carbon dioxide, Antimony compounds.

Special protective equipment and precautions for fire-fighters: For fire involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Use self-contained breathing apparatus with full face shield to protect against the hazardous effects of combustion products and oxygen deficiencies. Keep fire exposed containers cool with water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Sections 2 and 7 for information on hazards and precautionary measures.

Methods and material for containment and cleaning up:
Sweep up to prevent tripping.

SECTION 7: Handling and Storage

Precautions for safe handling: Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles: Keep away from children, infants and pets. Avoid excessive heat or open flames. Keep in dry location.

All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits		
Substance	**PEL-TWA (8 hour)**	**PEL-STEL (15 min)**
Zinc Dust	15 mg/m^3(dust: total) 5 mg/m^3(dust: respirable)	No data available
Antimony Trioxide	0.5 mg/m^3	No data available

US ACGIH Threshold Limit Values		
Substance	**TLV-TWA (8 hour)**	**TLV-STEL (15 min)**
Zinc Dust	10 mg/m^3 dust: (inhalable particles)	No data available
Antimony Trioxide	0.5 mg/m^3	No data available

NIOSH Exposure Limits		
Substance	**TWA**	**STEL**
Zinc Dust	No data available	No data available
Antimony Trioxide	0.5 mg/m^3	No data available

Appropriate engineering controls: Not required under normal conditions of use.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Not required under normal conditions of use.
The use of ANSI compliant safely glasses is recommended.

Skin and Hand protection: Not required under normal conditions of use.
Use neoprene gloves if necessary.

Respiratory protection: Not required under normal conditions of use.

Other: No data available.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties

Appearance

Physical state:	Solid
Form:	Solid
Color:	Varies.
Odor:	No data available.
Odor threshold:	No data available
pH:	No data available.
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower %):	Not applicable
Flammability limit – upper (%):	Not applicable
Explosive limit – lower (%):	Not applicable
Explosive limit – upper (%):	Not applicable
Vapor pressure:	No data available
Vapor density:	No data available
Relative Density:	Not applicable
Solubility:	Not applicable
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Other information:	
% Volatile by volume:	None
Percent solids by weight:	~ 100%

SECTION 10: Stability and Reactivity

Reactivity:	Not chemically reactive.
Chemical stability:	Stable under normal ambient and required under normal conditions of use.
Possibility of hazardous reactions:	Hazardous reactions not anticipated.
Conditions to avoid:	Avoid conditions of moisture or high humidity.
Incompatible materials:	Avoid strong oxidizers and strong acids.
Hazardous decomposition products:	Excessive heat and burning may release zinc oxides, carbon monoxide, carbon dioxide, and Antimony compounds.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:	Not an expected route of entry.

Ingestion: Not an expected route of entry.
Skin: Skin contact is a potential route of entry.
Eyes: Not an expected route of entry.

Symptoms related to the physical, chemical, and toxicological characteristics:
None normally expected.

Delayed and immediate effects and chronic effects from short or long-term exposure:
Not applicable under normal conditions of use.

Numerical measures of toxicity:

Ingredient Information:

Substance	Test Type (species)	Value
Zinc Dust	LD_{50} Oral (Rat)	No data available
	LD_{50} Dermal (Rabbit)	No data available
	LC_{50} Inhalation	No data available
Antimony Trioxide	LD_{50} Oral (Rat)	34,600 mg/kg

Product Acute Toxicity Estimates:
Acute Oral Toxicity – no data available
Acute Dermal Toxicity - no data available
Acute Inhalation Toxicity - no data available

Skin corrosion/irritation: No information available on the mixture, however none of the components have been classified to cause skin corrosion/irritation (or are below the concentration threshold for classification).

Serious eye damage/eye irritation: No information available on the mixture, however none of the components have been classified to cause eye damage/irritation (or are below the concentration threshold for classification).

Respiratory sensitization: No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).

Skin sensitization: No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).

Germ cell mutagenicity: No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

Carcinogenicity: No information available on the mixture. Antimony Trioxide is listed as a "2B: possibly carcinogenic to humans" by the International Agency for Research on Cancer (IARC) Monographs (latest edition). Antimony Trioxide is not listed as a carcinogen by OSHA or the National Toxicology Program (NTP) Report on Carcinogens (latest edition)

Reproductive toxicity: No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

Specific target organ toxicity-Single exposure: No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).

Specific target organ toxicity-Repeat exposure: No information available on the mixture.

Aspiration hazard: No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).

Further information: No data available.

SECTION 12: Ecological information

Ecotoxicity:

Product data: No data available

Ingredient Information:

Substance	Test Type	Species	Value
Zinc Dust	LC_{50}	Fish	No data available
	LC_{50}	Aquatic crustacea	No data available

	EC_{50}	Algae	No data available
Antimony Trioxide	LC_{50}	Fish	>1000 mg/l, 96 hours
	EC_{50}	Aquatic crustacea	>1000 mg/l, 48 hours
	EC_{50}	Algae	0.63-0.8 mg/l, 72 hours

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal instructions:
Do not burn. Burning will release antimony compounds.

See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)
Not regulated.

IMDG
Not regulated.

IATA (Country variations may apply)
Not regulated.

SECTION 15: Regulatory Information

Safety, health and environmental regulations specific for the product.

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, on the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4:
Reportable quantity (Antimony Trioxide): 1000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Antimony Trioxide: Hazardous Air Pollutant.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None listed.

SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None listed.

Section 311/312 (40 CFR 370):

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):
This product contains the following materials that are subject to the reporting requirements of Section 313 of EPCRA: Zinc powder (stabilized); Antimony Trioxide

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986: Antimony Trioxide is listed on Prop 65 as a carcinogen.

Massachusetts Right to Know: Zinc powder (stabilized) and Antimony Trioxide are listed on the Massachusetts Right to Know List.

New Jersey Right to Know: Zinc powder (stabilized) and Antimony Trioxide are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Zinc powder (stabilized) and Antimony Trioxide are listed on the Pennsylvania Right to Know List.

SECTION 16: Other information, including date of preparation or last revision.

Revision Date: February 16, 2106

To the best of our knowledge, the information contained herein is accurate. However IDEAL INDUSTRIES INC. does not assume 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 which exist.