



SAFETY DATA SHEET (SDS)

MATERIAL SAFETY DATA SHEET (MSDS)

Section 1 - Product and Company Identification

Trade Name: CEC CIRCUIT BREAKER.

Manufacturer: CEC INDUSTRIES LTD 599 BOND STREET LINCOLNSHIRE, IL 60069 USA.
TEL: (847)821-1199 FAX: (847)821-1133

Section 2 - Hazards Identification

NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards and/or NIOSH Pocket Guide to Chemical Hazards lists the following effects of overexposure to the chemicals/materials tabulated below when they are inhaled, ingested, or contacted with skin or eye:

Emergency Overview: Pellets or chips with slight to no odor. Combustion and decomposition may produce hazardous fumes. Base resin dust/powder has a US Bureau of Mines relative dust explosion hazard rating of weak. Molten material can cause thermal burns on contact with skin or eyes. Spilled pellets may create a slipping hazard.

Potential Health Effects:

Routes of Exposure: Skin and eye contact or Inhalation of vapors.

Signs and Symptoms of Exposure: No specific information available.

Immediate Effects:

Skin: No specific information available on the product. Hot or molten material has the potential to cause thermal burns. Polymer particles can cause mechanical irritation.

Eyes: No specific information available on the product. Polymer particles can cause mechanical irritation. Degradation vapors may cause irritation.

Inhalation: No specific information available on the product. In the form supplied,

this material is not considered an inhalation hazard; polymer particles may be considered an inert nuisance particulate. Overheating in processing may generate hazardous, irritating vapors.

Ingestion: No specific information available on the product; however, low toxicity by this route is expected based on the biological activity of high molecular weight polyesters.

Long Term/Delayed Effects: No specific information available.

Carcinogenicity: No specific information available on the product. The International Agency for Research on Cancer (IARC) has evaluated carbon black, which may be contained in this product, and found it to be possibly carcinogenic to humans (Group 2B). Any carbon black in this product is wetted by the polymer system, and therefore, presents minimal likelihood of exposure under normal conditions of processing and handling.

Section 3 -Composition/Information on ingredients

Chemical Name	CAS Number	Hazard	Exposure Limits in Air (mg/cubic m)	
			ACCIH/TLV	OSHA/PEL
Polybutylene Terephthalate	26062-94-2	N/A	5.0	5.0
Copper	7440-50-8	Respiratory Irritant	1.0	1.0
Iron	7439-86-6	Respiratory Irritant	5.0	10.0
Nickel	7440-02-0	Respiratory Irritant	1.0	1.0

Materials listed on this data sheet are contained in varying percentages in this product. Exact percentages are proprietary and will not be disclosed other as required in Accordance with the regulations.

No Hazardous material is contained under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

No Hazardous ingredient subject to report under the toxic chemical (SARA313).

Section 4 - First AID Measures

First AID:

Inhalation: If discomfort, irritation or symptoms of pulmonary involvement develop, remove from exposure and seek medical attention as need.

Ingestion: In the unlikely event of ingesting a large quantity of material, seek medical attention immediately.

Skin Contact: Thoroughly wash affected area with mild soap or detergent and water and prevent further contact. Seek medical attention as need.

Eye Contact: Wash eyes, including under eyelids, immediately with copious amounts of water for 15 minutes. Seek medical attention as need.

Section 5 - Fire-Fighting Measures

Fire Extinguishing Materials: Water, water fog, dry chemical, foam. Use extinguishing agents suitable for surrounding fire.

Special Firefighting Procedure:

Use a self-contained breathing apparatus to prevent inhalation of dust and/or fumes that may be generate from material during firefighting activities.

Unusual Fire & Explosion Hazards:

During a fire irritating & toxic gases & aerosol may be generated by thermal decomposition & combustion.

Section 6 - Accidental release measures

Step to be taken in case material is released or spilled: If molten, allow material to cool down and place into an appropriate marked container for disposal.

Section 7 - Handling and Storage

Storage Temperature:
None Specified

Ventilation:

Use adequate general and local exhaust ventilation to maintain exposure levels below the PEL or TLV limits. If such ventilation is unavailable, use respirators as specified below.

Respiratory protection:

Use appropriate NIOSH approved respirator if airborne dust concentrations exceed the pertinent PEL or TLV limits. All appropriate requirements set forth in 29 CFR 1910.134 should be met.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING:

Store in a dry, sprinkler equipped warehouse, and protect it from rain or excessive moisture.

Product as shipped is not a combustible dust.

Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate.

Section 8 - Exposure Control/Personal Protection

Hand Protection: OSHA Specified cut and puncture-resistant gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended.

Skin and Body Protection: No specified skin protection requirements during normal handling and use.

Additional Protective Measures: After handling the material, wash hand and face thoroughly before eating, drinking, smoking or handling tobacco products, applying cosmetics or using toilet facilities.

Section 9 - Physical and chemical properties

POLYBUTYLENE TEREPHTHALATE

HCC: N1

Physical: Solid.

Appearance and Odor: Slight Pellets & Characteristic odor.

Vapor Pressure: <0.001mm Hg.

Melting Point: 228.0 deg C (442.4 deg F)

Solubility: negligible 0.1% (in water).

Specific Gravity: 1.3 – 1.65

Percent Volatiles: <0.5 by weight

NICKEL PLATED IRON

HCC: N1

Evaporation Rate & Reference: N/A

Solubility in water: Insoluble.

Appearance and Odor: Metallic Conductor, no odor.

Section 10 - Stability and Reactivity

Stability Indicator: Yes

Conditions to avoid: N/A Incompatibility (materials to avoid): Strong Oxidizing Agents, strong Acids or bases Hazardous decomposition products (including combustion products): Thermal Decomposition may yield co, co2, and possibly other toxics fumes/vapors.

Hazardous polymerization products: Heat, Temperature Extremes.

Section 11 - Toxicological Information

No specific toxicological information is available.

Section 12 - Ecological Information

No specific ecological information is available.

Section 13 - Disposal considerations

WASTE DISPOSAL METHOD:

Clean-up by vacuuming or other method that avoids dust generated. Place materials in closed containers to avoid generating dust.

The materials of the products are non-hazardous and be discarded in accordance with existing federal, state and local environmental control laws.

Section 14 - Transportation information

Land transport (DOT)

Non-Regulated list under US Department of Transportation.

Sea transport (IMDG) Non-Regulated

Air transport (ICAO/IATA) Non-Regulated

Section 15 - Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Non-Hazardous.

US Toxic Substances Control Act: Listed on the TSCA Inventory.

US.EPA CERCLA Hazardous Substances (40 CFR 302) Components None

SARA Section 311/312 Hazard Categories: Non-hazardous under Section 311/312.

US.EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Components None

US.EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemical (40 CFR 372.65)-Supplier Notification Required: Components None

Section 16 - Other Information

CEC Industries, Ltd believes that the information contained herein is accurate as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Nothing contained herein shall be construed as a license for the use of any product in a manner that would infringe existing patents.

Issue Date: Aug. 10, 2018 REV. D