



## **SAFETY DATA SHEET (SDS)**

### **MATERIAL SAFETY DATA SHEET (MSDS)**

#### **Section 1 - Product and Company Identification**

Trade Name: CEC FLASHER/HD ELECTRONIC FLASHER/RELAY.

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

#### **Section 2 - Hazards Identification**

NLD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: EYE: EXPOS TO LIQ/VAP CAUSES IRRIT.

SYMPS MAY INCL STINGING, TEARING, REDNESS & SWELL. SKIN: EXPOS MAY CAUSE MILD IRRIT. PRLNGD/RPTD EXPOS MAY DRY SKIN. SYMPS MAY INCL REDNESS, BURNING, DRYING & CRACKING & SKIN BURNS. SKIN ABSORPTION IS POSS & MAY CONTRIBUTE TO SYMPS OF TOXICITY FROM OTHER ROUTES OF (EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: HLTH HAZ: EXPOS. INHAL: EXPOS TO VAP/MIST IS

POSS. SHORT-TERM INHAL TOX IS LOW. BRTHG SM AMTS DURING NORM HNDLG IS NOT LIKELY TO CAUSE HARMFUL EFTS; BRTHG LG AMTS MAY BE HARMFUL. SYMPS MAY INCL: IRRITANT (NOSE, THROAT, RESP TRACT), COUGH, SHORTNESS OF BRTH, DFCLT/LABORED BRTHG, CNS DEPRESS (DIZZ, DROW, WEAK, FATG, (ING 2)

Medical Condition Aggravated by Exposure: PRE-EXISTING SKIN DISORDERS & LUNG DISORDERS (EG ASTHMA-LIKE CNDTNS) MAY BE AGGRAVATED BY EXPOS TO THIS MATERIAL OVEREXP TO MATL (OR ITS COMPONENTS) MAY AGGRAVATE PRE-EXISTING DISORDERS OF EYE.

#### **Section 3 -Composition/Information on ingredients**

Exposure Limits in Air (mg/cubic m)

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Hazard</b>	<b>ACCIH/TLV</b>	<b>OSHA/PEL</b>
POLYCARBONATE PAINT NK	25766-59-0	Respiratory Irritant	N/A	N/A
Propylene glycol monomethyl ether	107-98-2	Respiratory Irritant	N/A	N/A
Isophorone	78-59-1	Respiratory Irritant	23.0	140.0
Coal Tar	64-17-5	Respiratory Irritant	N/A	N/A
Copper	7440-50-8	Respiratory Irritant	1.0	1.0
Zinc	7440-66-6	Respiratory Irritant	10.0	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:

Maximum: 93° C (199.4° F)

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**

Polycarbonate

Spec Gravity: 7-2.20

Solubility in Water: NIL

Appearance and Odor: Solid shapes, Natural to Black.

**PROPYLENE GLYCOL MONOPROPYL ETHER**

Boiling Pt: B.P. Text: 302F, 150C

Vapor Pres: 1.70 @ 68F

Vapor Density: 4.01  
Spec Gravity: 0.886  
Evaporation Rate & Reference: 0.21 (N-BUTYL ACETATE=1)  
Appearance and Odor: NONE SPECIFIED BY MANUFACTURER.  
Percent Volatiles by Volume: 100

#### ISOPHORONE

Odor: peppermint odor - camphor  
pH: Not available.  
Vapor Pressure: Not available.  
Vapor Density: 4.8 (air=1)  
Evaporation Rate: Not available.  
Viscosity: Not available.  
Boiling Point: 213-214 deg C  
Freezing/Melting Point:-8 deg C  
Decomposition Temperature: Not available.  
Solubility: Slightly soluble in water.  
Specific Gravity/Density: 0.9200  
Molecular Formula: C<sub>9</sub>H<sub>14</sub>O  
Molecular Weight: 138.21

#### COAL TAR

HCC: F3  
Spec Gravity: 0.845(H\*2O = 1)  
Solubility in Water: MISIBLE

### Section 10 - Stability and Reactivity Data

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. E**