

**Common Name:** START CAPACITOR (CD60)

**Manufacturer:** WENLING ZEGUO DALI ELECTRONIC UNIT FACTORY CHINA

**MSDS Revision Date:** 10/10/2007

**Grainger Item Number(s):** 2MDN9, 2MDR1, 2MDR2, 2MDR3, 2MDR4, 2MDR5, 2MDR6, 2MDR7, 2MDR8, 2MDR9, 2MDT1, 2MDT2, 2MDT3, 2MDT4, 2MDT5, 2MDT6, 2MDT7, 2MDT8, 2MDT9, 2MDU1, 2MDU2, 2MDU3, 2MDU4, 2MDU5, 2MDU6, 2MDU7, 2MDU8, 2MDU9, 2MEL2, 2MEL3, 2MEL4, 2MEL5, 2MEL6, 2MEL7, 2MEL8, 2MEL9, 2MEP1, 2MEP2, 2MEP3, 2MEP4, 2MEP5, 2MEP6, 2MEP7, 2MEP8, 2MEP9, 2MER1, 2MER2, 2MER3, 2MER4, 2MER5, 2MER6, 2MER7, 2MER8, 2MER9, 2MET1, 2MET2, 2MET3, 2MET4, 2MET5, 2MET6, 2MET7, 2MET8, 2MET9, 2MEU1, 2MEU2, 2MEU3, 2MEU4, 2MEU5, 2MEU6

**Manufacturer Model Number(s):**

## MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

- [SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION](#)
- [SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT](#)
- [SECTION 3 - HAZARDS IDENTIFICATION](#)
- [SECTION 4 - FIRST AID MEASURES](#)
- [SECTION 5 - FIRE FIGHTING MEASURES](#)
- [SECTION 6 - ACCIDENTAL RELEASE MEASURES](#)
- [SECTION 7 - HANDLING AND STORAGE](#)
- [SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION](#)
- [SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES](#)
- [SECTION 10 - STABILITY AND REACTIVITY](#)
- [SECTION 11 - TOXICOLOGICAL INFORMATION](#)
- [SECTION 12 - ECOLOGICAL INFORMATION](#)
- [SECTION 13 - DISPOSAL CONSIDERATIONS](#)
- [SECTION 14 - TRANSPORT INFORMATION](#)
- [SECTION 15 - REGULATORY INFORMATION](#)
- [SECTION 16 - ADDITIONAL INFORMATION](#)

PONY

REPORT NO.: SZ070929-040

DATE: 10.10.2007

MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: START CAPACITOR (CD60)

TRADE NAME: CAPACITOR

SAMPLE CODE: CD60

MANUFACTURE: WENLING ZEGUO DALI ELECTRONIC UNIT FACTORY

ADDRESS:

DANYA INDUSTRIAL ZONE  
ZEGUO, WENLING CITY, ZHEJIANG  
CHINA

POST CODE: 317523

TEL: 0576-86448268

EMERGENCY TELEPHONE: 0576-86448268

FAX: 0576-86448298

EMAIL: DALI@HUI-ZHONG.NET

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

COMPONENT	CHEMICAL NAME	FORMULA	CAS NO.
CARBON-ACCUMULATION:			
SHELL	CARBON	C	7782-42-5
CIRCLIP	IRON	Fe	7439-89-6
INSERT	GALVANIZING COPPER SHEET	Cu	7440-50-8
		Zn	7440-66-6
ALUMINIUM RIVET	ALUMINIUM	Al	7429-90-5
ALUMINIUM CONNECTS	ALUMINIUM	Al	7429-90-5
CORE:			
ELECTROLYTIC	KRAFT PAPER		
PAPER	ALUMINA	Al <sub>2</sub> O <sub>3</sub>	215-691-6
ALUMINA FOIL	ALUMINA	Al	7429-90-5
	GLYCOL	HOCH <sub>2</sub> CH <sub>2</sub> OH	56-81-5
ELECTROLYTE	BORIC ACID	H <sub>3</sub> BO <sub>3</sub>	10043-35-3
	AMMONIA	NH <sub>3</sub> .H <sub>2</sub> O	7664-41-7
BITUMEN	BITUMEN		8052-42-4
BAKELITE LID ADHESIVE	BAKELITE		
RUBBER	RUBBER	(C <sub>5</sub> H <sub>8</sub> ) <sub>x</sub>	9003-31-0

## SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION, SKIN, INGESTION.

HEALTH HAZARDS (ACUTE AND CHRONIC):

THESE CHEMICALS ARE CONTAINED IN A SEALED CAN. RISK OF EXPOSURE OCCURS ONLY IF THE CAPACITOR IS MECHANICALLY OR ELECTRICALLY ABUSED. THE MOST LIKELY RISK IS ACUTE EXPOSURE WHEN A CAPACITOR VENTS.

HEALTH HAZARDS OF ELECTROLYTE:

EYES: CONTACT WITH ELECTROLYTE MAY CAUSE IRRITATION, REDNESS AND PAIN.

SKIN:

MAY BE HAZARDOUS IN CASE OF SKIN CONTACT (IRRITANT). SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING, OR, OCCASIONALLY, BLISTERING.

INHALATION:

OCCASIONAL MILD IRRITATION TO THE MUCOUS MEMBRANES OF THE NOSE AND THROAT MAY OCCUR REACH THE DUST OR MIST LEVELS.

INGESTION:

SWALLOWING SIGNIFICANTLY LARGE AMOUNTS MAY CAUSE GASTROINTESTINAL SYMPTOMS.

#### **SECTION 4 - FIRST AID MEASURES**

EYES:

FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID.

SKIN:

REMOVE CONTAMINATED CLOTHES AND RINSE SKIN WITH PLENTY OF WATER OR SHOWER FOR 15 MINUTES. GET MEDICAL AID.

INHALATION:

REMOVE FROM EXPOSURE AND MOVE TO FRESH AIR IMMEDIATELY. USE OXYGEN IF AVAILABLE.

INGESTION:

FOR LARGE AMOUNTS, DRINK 2 GLASSES OF WATER AND SEEK MEDICAL ATTENTION.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT: N/A.

AUTO-IGNITION TEMPERATURE: N/A.

EXTINGUISHING MEDIA:

USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

FIREFIGHTING:

IN CASE OF FIRE IN AN ADJACENT AREA, USE WATER, CO2 OR DRY CHEMICAL EXTINGUISHERS IF CAPACITOR IN THEIR ORIGINAL CONTAINERS SINCE THE FUEL OF THE FIRE IS BASICALLY PAPER PRODUCTS. FOR BULK QUANTITIES OF UNPACKAGED CAPACITOR, DO NOT USE WATER.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

ELECTROLYTE IS A NON-HAZARDOUS WASTE WHEN SPILLED OR DISPOSED OF, ACCORDING TO RCRA REGULATION 40CFR 261.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
WEAR LEATHER GLOVES TO PICK UP BROKEN, DAMAGED CAPACITOR, TRANSFER TO WASTEBASKET FOR DISPOSAL.

WASTE DISPOSAL METHOD:  
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS-HANDLING/STORING: AVOID PHYSICAL DAMAGE. HANDLE WITH CARE.

## **SECTION 7 - HANDLING AND STORAGE**

THE CAPACITOR SHOULD NOT BE OPENED, DESTROYED OR INCINERATE, SINCE THEY MAY LEAK OR RUPTURE AND RELEASE TO THE ENVIRONMENT THE INGREDIENTS THAT THEY CONTAIN IN THE HERMETICALLY SEALED CONTAINER.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
AVOID MECHANICAL OR ELECTRICAL ABUSE. STORAGE PREFERABLY IN COOL, DRY AND VENTILATED AREA, WHICH IS SUBJECT TO LITTLE TEMPERATURE CHANGE. STORAGE AT HIGH TEMPERATURES SHOULD BE AVOIDED.

DO NOT PLACE THE CAPACITOR NEAR HEATING EQUIPMENT, NOR EXPOSE TO DIRECT SUNLIGHT FOR LONG PERIODS.

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION:  
IN CASE OF CAPACITOR VENTING, PROVIDE AS MUCH VENTILATION AS POSSIBLE. AVOID CONFINED AREAS WITH VENTING CAPACITORS. RESPIRATORY PROTECTION IS NOT NECESSARY UNDER CONDITIONS OF NORMAL USE.

VENTILATION: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE.

PROTECTIVE GLOVES: NOT NECESSARY UNDER CONDITIONS OF NORMAL USE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:  
NOT NECESSARY UNDER CONDITIONS OF NORMAL USE.

PERSONAL PROTECTION IS RECOMMENDED FOR VENTING CAPACITORS: RESPIRATORY PROTECTION, PROTECTIVE GLOVES, PROTECTIVE CLOTHING AND SAFETY GLASS WITH SIDE SHIELDS.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

TYPE: 124-149 (MICRO) F, 160V.AC50/60HZ, 2/0.835, -40/65 DEG. C

CHEMICAL USE: MACHINE STARTER.

APPEARANCE CHARACTERS: BLACK CYLINDRICAL SOLID.

pH: N/A.

VAPOR PRESSURE: N/A.

VAPOR DENSITY: N/A.

EVAPORATION RATE: N/A.

SOLUBILITY: INSOLUBLE.

## **SECTION 10 - STABILITY AND REACTIVITY**

STABILITY: STABLE

CONDITIONS TO AVOID: HEATING, MECHANICAL ABUSE AND ELECTRICAL ABUSE.

HAZARDOUS DECOMPOSITION PRODUCTS: N/A.

HAZARDOUS POLYMERIZATION: N/A.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

TOXICOLOGICAL INFORMATION OF ELECTROLYTE:

BORIC ACID (LOW TOXICITY):

ORAL LD50 (RAT): 3,500-4,100 MG/KG

SKIN LD50 (RABBIT): >2,000 MG/KG

INHALATION LC50 (RAT): >2.0 MG/L

GLYCOL (LOW TOXICITY):

ACUTE ORAL LD50 (MOUSE): 4090 MG/KG

INHALATION, SKIN CONTACT AND EYE CONTACT ARE POSSIBLE WHEN THE CAPACITOR IS OPENED.

## **SECTION 12 - ECOLOGICAL INFORMATION**

WHEN PROMPTLY USED OR DISPOSED THE BATTER DOES NOT PRESENT ENVIRONMENTAL HAZARD.

WHEN DISPOSED, KEEP AWAY FROM WATER, RAIN AND SNOW.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

ELECTROLYTE OF CAPACITOR IS BEST DISPOSED OF AS A NON-HAZARDOUS WASTE.

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

## **SECTION 14 - TRANSPORT INFORMATION**

SHIPPING NAME: NOT REGULATED.

HAZARD CLASS: N/A.

PACKAGING INFORMATION: BOX, TRAY.

## **SECTION 15 - REGULATORY INFORMATION**

DANGEROUS GOODS REGULATION (IATA):

LAW INFORMATION: IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

## **SECTION 16 - ADDITIONAL INFORMATION**

THE ABOVE INFORMATION IS BASED ON THE DATA OF WHICH WE ARE AWARE AND IS BELIEVED TO BE CORRECT AS OF THE DATA HEREOF. SINCE THIS INFORMATION MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH MAY BE UNFAMILIAR AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATA HEREOF MAY SUGGEST MODIFICATIONS OF THE INFORMATION, WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF ITS USE. THIS INFORMATION IS FURNISHED UPON CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS PARTICULAR PURPOSE.

MSDS CREATION DATE: OCTOBER, 10, 2007