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## MATERIAL SAFETY DATA SHEET

DATE PREPARED: 3/02/10 PK

1. CHEMICAL PRODUCT IDENTIFICATION **DUBOTH 2828**

General Use: CLOSED SYSTEM CORROSION INHIBITOR

EMERGENCY TELEPHONE NUMBER:  
CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS 8 HRS. TWA (PPM)

Component	Hazard	CAS#	OSHA STEL	OSHA PEL	ACGIH TLV
ACETIC ACID	CORROSIVE	64-19-7	NONE LISTED	NONE LISTED	NONE LISTED
DICYCLOHEXYLAMINE	CORROSIVE	101-83-7	NONE LISTED	NONE LISTED	NONE LISTED

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **THIS PRODUCT IS AN IRRITANT .**

POTENTIAL HEALTH EFFECTS

INHALATION: IRRITATING TO MUCOUS MEMBRANES

EYE CONTACT: **MAY BE IRRITATING TO THE EYES.**

INGESTION: **SEE INHALATION – MAY ALSO CAUSE NAUSEA AND VOMITING.**

CHRONIC: **NONE**

SKIN CONTACT: **MAY BE IRRITATING TO THE SKIN.**

TARGET ORGANS: **BLOOD AND CARDIOVASCULAR SYSTEM.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: **N.D.**

4. FIRST AID MEASURES

INHALATION: **REMOVE TO FRESH AIR. GET MEDICAL ATTENTION.**

SKIN CONTACT: **WASH WITH SOAP AND WATER FOR 15 MINUTES.**

EYE CONTACT: **FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.**

INGESTION: **GIVE 2-4 FULL CUPS OF MILK OR WATER AND INDUCE VOMITING. GET MEDICAL ATTENTION.**

NOTES TO PHYSICIAN: **NONE**

5. FIRE FIGHTING MEASURES

Flashpoint (°F) and Method: **WATER BASED – DOES NOT BURN**

Autoignition Temperature (°F): **N/A**

FLAMMABLE LIMITS: Ingredient: **NONE**

UEL: **N/A** LEL: **N/A**

GENERAL HAZARD: **OXIDIZER WHEN DRIED, SUPPORTS COMBUSTION.**

FIRE FIGHTING EQUIPMENT: **WEAR SELF CONTAINED BREATHING APPARATUS.**

FIRE FIGHTING INSTRUCTIONS: **FLOOD WITH WATER.**

EXTINGUISHING MEDIA:

Foam: <b>YES</b>	Alcohol Foam: <b>YES</b>	CO2: <b>YES</b>
Dry Chemical: <b>YES</b>	Water: <b>YES</b>	Other: <b>NONE</b>

HAZARDOUS COMBUSTION PRODUCTS: **NITROGEN OXIDES.**

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

0 – Insignificant	1 – Slight	2 – Moderate	3 – High
4 – Extreme	U – Unknown	* - No Information	

Health : **1**  
Flammability : **0**  
Reactivity : **0**

SPECIAL INFORMATION: **NONE.**

N/A: Not Applicable  
N/D: Not Determined  
N/E: Not Established  
\* Where no corresponding data was contained in manufacturer's MSDS, additional research is required and is available upon request.



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**6. ACCIDENTAL RELEASE MEASURES**

LAND SPILL: **CONTAIN AND ABSORB, THEN DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES.**

WATER SPILL: **NOTIFY APPROPRIATE AUTHORITIES. THIS PRODUCT CONTAINS SODIUM NITRITE.**

**7. HANDLING AND STORAGE**

STORAGE TEMPERATURE (°F): **ROOM TEMPERATURE**

STORAGE PRESSURE: **ATMOSPHERIC**

GENERAL: **STORE IN A COOL, DRY AREA. KEEP AWAY FROM COMBUSTIBLE MATERIALS. KEEP FROM FREEZING AND WASH AFTER HANDLING.**

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING CONTROLS: **USE WITH ADEQUATE VENTILATION.**

PERSONAL PROTECTION: **GOGGLES**

RESPIRATOR: **NONE.**

PROTECTIVE CLOTHING: **RUBBER GLOVES.**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure (mmHg)	:	<b>N.D.</b>	pH 1% Solution	:	<b>6.5 - 7.5</b>
Specific Gravity (Water=1)	:	<b>0.98-1.02</b>	Odor	:	<b>AMMONIACAL</b>
Solubility in Water	:	<b>COMPLETE</b>	Appearance	:	<b>CLEAR AMBER</b>
Freezing Point	:	<b>N.D.</b>	Physical State	:	<b>LIQUID</b>
Evaporation Rate (BuAc=1)	:	<b>N.D.</b>	Vapor Density (Air=1)	:	<b>N.D.</b>
Viscosity	:	<b>N.D.</b>	Percent Volatile by Vol	:	<b>N.D.</b>
Boiling Point (°F)	:	<b>N.D.</b>			

**10. STABILITY AND REACTIVITY**

GENERAL: **STABLE BUT WILL REACT EXPLOSIVELY WITH OXIDIZERS SUCH AS CHLORINE.**

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: **STRONG OXIDIZING AGENTS AND ALKALIS**

HAZARDOUS DECOMPOSITION PRODUCTS: **NITROGEN OXIDES ABOVE 320°C.**

**11. TOXICOLOGICAL INFORMATION**

CARCINOGENIC INFORMATION: **N/E**

CAS#: **NONE**

% WT.: **N/A**

IARC: **NOT LISTED**    NTP: **NOT LISTED**    OSHA: **NOT LISTED**    ACGIH: **NOT LISTED**    OTHER: **NOT LISTED**

**12. ECOLOGICAL INFORMATION: N.D.**

**13. DISPOSAL CONSIDERATION**

RCRA Hazard Class: **NONE LISTED.**

**14. TRANSPORT INFORMATION:**

DOT (Department of Transportation)

Proper Shipping Name: **NOT DOT REGULATED**

Hazard Class: **N/A**

Identification Number: **N/A**

**15. REGULATORY INFORMATION**

TSCA (Toxic Substance Control Act): **ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.**

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act) **NOT LISTED**

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: **IMMEDIATE HEALTH HAZARD**

313 Reportable Ingredients: **NONE**

**16. OTHER INFORMATION**

REFERENCE: **PRODUCT FILE #F1573**

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL. IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.

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