



# THE METRO GROUP, INC.

*Servicing Water Systems with Environmental Care*

50-23 Twenty-Third Street  
Long Island City, NY 11101  
TEL: (718) 729-7200  
FAX: (718) 729-8677

## MATERIAL SAFETY DATA SHEET

DATE PREPARED: 1/30/06 PK

### 1. CHEMICAL PRODUCT IDENTIFICATION **DUBOTH H6**

General Use: COMPLETE BOILER WATER TREATMENT

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
SODIUM LIGNOSULFONATE	IRRITANT	68131-31-7	NONE	NONE	NONE
SODIUM CARBONATE	IRRITANT	497-19-8	NONE	NONE	NONE
SODIUM SULFITE	IRRITANT	7757-83-7	NONE	NONE	NONE
SODIUM POLYACRYLATE	IRRITANT	9003-04-7	NONE	NONE	NONE

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: THIS SOLUTION IS CORROSIVE.

#### POTENTIAL HEALTH EFFECTS

INHALATION: MIST MAY BURN THE MUCOUS MEMBRANES.

EYE CONTACT: MAY BURN THE EYES.

INGESTION: MAY BURN THE GASTROINTESTINAL TRACT.

CHRONIC: NONE

SKIN CONTACT: MAY BURN THE SKIN.

TARGET ORGANS: POINT OF CONTACT.

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.

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

INGESTION: DO NOT CAUSE VOMITING. GET MEDICAL ATTENTION.

NOTES TO PHYSICIAN: NONE.

### 5. FIRE FIGHTING MEASURES

Flashpoint (°F) and Method: WATER SOLUTION DOES NOT BURN.

Autoignition Temperature (°F): N/A

FLAMMABLE LIMITS: Ingredient: N/A

UEL: N/A

LEL: N/A

GENERAL HAZARD: THIS PRODUCT IS CORROSIVE.

FIRE FIGHTING EQUIPMENT:

WEAR SELF CONTAINED BREATHING APPARATUS.

#### FIRE FIGHTING INSTRUCTIONS:

##### EXTINGUISHING MEDIA:

Foam: YES

Alcohol Foam: YES

CO2: YES

Dry Chemical: YES

Water: YES

Other: NONE

HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, NITROGEN AND SULFUR.

#### NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

0 - Insignificant

1 - Slight

2 - Moderate

3 - High

4 - Extreme

U - Unknown

\* - No Information

Health: 2

Flammability: 0

Reactivity: 0

SPECIAL INFORMATION: CORROSIVE ALKALINE.

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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PRODUCT: **DUBOTH H6**

DATE PREPARED: 1/30/06 PK

**6. ACCIDENTAL RELEASE MEASURES**

LAND SPILL: COLLECT AND DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES. WATER SPILL: CONTAIN AND REPORT TO THE APPROPRIATE AUTHORITIES.

**7. HANDLING AND STORAGE**

STORAGE TEMPERATURE (°F): ROOM TEMPERATURE. STORAGE PRESSURE: ATMOSPHERIC.

GENERAL: STORE IN A COOL, DRY AREA. KEEP CONTAINER CLOSED, PROTECT FROM FREEZING AND WASH AFTER HANDLING.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

ENGINEERING CONTROLS: GENERAL EXHAUST USE WITH ADEQUATE VENTILATION.

PERSONAL PROTECTION: GOGGLES.

RESPIRATOR: NONE.

PROTECTIVE CLOTHING: RUBBER GLOVES AND APRON.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure (mmHg)	: N.D.	pH	: 11.0 12.0
Specific Gravity (Water=1)	: 1.18 1.22	Odor	: SLIGHT ACRID
Solubility in Water	: COMPLETE	Appearance	: DARK BROWN
Freezing Point	: N.D.	Physical State	: LIQUID
Evaporation Rate (BuAc=1)	: N.D.	Vapor Density (Air=1)	: N.D.
Viscosity	: N.D.	Percent Volatile by Vol	: N.D.
Boiling Point (°F)	: N.D.		

**10. STABILITY AND REACTIVITY**

GENERAL: STABLE.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: OXIDIZING AGENTS, ACIDS AND NITRITES.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

**11. TOXICOLOGICAL INFORMATION**

CARCINOGENIC INFORMATION: N/E

CAS#: N/A % WT.: N/A

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

**12. ECOLOGICAL INFORMATION: SULFITE CONSUMES OXYGEN IN WATER.**

**13. DISPOSAL CONSIDERATION**

RCRA Hazard Class: NOT LISTED.

**14. TRANSPORT INFORMATION:**

DOT (Department of Transportation)  
Proper Shipping Name: COMPOUNDS CLEANING LIQUID, 8, NA1760, PG II.  
Hazard Class: CORROSIVE Identification Number: NA1760

**15. REGULATORY INFORMATION CONFORMS TO FDA REQUIREMENTS, USDA APPROVED**

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

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act) IF 20,000 POUNDS ARE SPILLED, CONTACT THE AUTHORITIES.

SARA TITLE III (Superfund Amendments and Reauthorization Act)  
311/312 Hazard Categories: IMMEDIATE HEALTH HAZARD.  
313 Reportable Ingredients: NONE LISTED.

**16. OTHER INFORMATION**

REFERENCE: PRODUCT FILE #F1034

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.

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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## MATERIAL SAFETY DATA SHEET

DATE PREPARED: 9/01/04 PK

1. CHEMICAL PRODUCT IDENTIFICATION		<b>CORRODINE 5010-SOLID</b>			
General Use: <b>STEAM AND RETURN LINE TREATMENT</b>		EMERGENCY TELEPHONE NUMBER: CHEMTREC 800-424-9300			
2. COMPOSITION/INFORMATION ON INGREDIENTS		EXPOSURE LIMITS 8 HRS. TWA (PPM)			
OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)					
<u>Component</u>	<u>Hazard</u>	<u>CAS#</u>	<u>OSHA STEL</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
DIETHYLAMINOETHANOL	IRRITANT	100-37-8	10 PPM TWA	10 PPM TWA	2 PPM
3. HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW: THIS MATERIAL IS A SEVERE IRRITANT.					
POTENTIAL HEALTH EFFECTS					
INHALATION:	IRRITATING TO MUCOUS MEMBRANES. MAY CAUSE DIZZINESS OR SUFFOCATION. MAY CAUSE NAUSEA AND VOMITING.		EYE CONTACT:	MAY CAUSE EYE IRRITATION AND/OR INJURY.	
INGESTION:	MAY CAUSE STOMACH IRRITATION AND IRRITATION OF THE DIGESTIVE TRACT.		CHRONIC:	NONE	
SKIN CONTACT:	MAY CAUSE SEVERE SKIN IRRITATION.		TARGET ORGANS:	POINT OF CONTACT.	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N.D.					
4. FIRST AID MEASURES					
INHALATION:	REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IMMEDIATELY.		SKIN CONTACT:	WASH WITH SOAP AND WATER.	
EYE CONTACT:	FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.		INGESTION:	GIVE 2-4 FULL CUPS OF MILK AND GET MEDICAL ATTENTION.	
NOTES TO PHYSICIAN: NONE					
5. FIRE FIGHTING MEASURES					
Flashpoint (°F) and Method:	<b>SOLID PRODUCT</b>		Autoignition Temperature (°F): N/A		
FLAMMABLE LIMITS:	Ingredient: DIETHYLAMINO ETHANOL	UEL:	N/A	LEL:	N/A
GENERAL HAZARD:	THIS MATERIAL IS A SEVERE IRRITANT.		FIRE FIGHTING EQUIPMENT:	WEAR SELF CONTAINED BREATHING APPARATUS.	
FIRE FIGHTING INSTRUCTIONS:					
EXTINGUISHING MEDIA:					
Foam:	YES	Alcohol Foam:	YES	CO2:	YES
Dry Chemical:	YES	Water:	YES	Other:	NONE
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN.					
NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:					
	0 - Insignificant	1 - Slight	2 - Moderate	3 - High	
	4 - Extreme	U - Unknown	* - No Information		
Health	:3				
Flammability	:2				
Reactivity	:0				
SPECIAL INFORMATION: SEVERE IRRITANT.					

N/A: Not Applicable  
N/D: Not Determined  
N/E: Not Established

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PRODUCT: **CORRODINE 5010-SOLID**

DATE PREPARED: 9/01/04 PK

## 6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:	CONTAIN AND ABSORB, THEN DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES.	WATER SPILL:	PREVENT ADDITIONAL DISCHARGE OF MATERIAL. THIS MATERIAL IS WATER SOLUBLE AND MAY NOT BE RECOVERABLE. REPORT TO THE APPROPRIATE AUTHORITIES.
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## 7. HANDLING AND STORAGE

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

GENERAL: **STORE IN A COOL, DRY AREA. KEEP CONTAINER CLOSED, KEEP FROM FREEZING AND WASH AFTER HANDLING.**

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: **LOCAL EXHAUST – USE WITH ADEQUATE VENTILATION.**

PERSONAL PROTECTION: **GOGGLES**

RESPIRATOR: **USE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IF EXPOSED TO VAPORS.**      PROTECTIVE CLOTHING: **RUBBER GLOVES.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (mmHg)	: N.D.	pH, 1%	: 9.5+
Specific Gravity (Water=1)	: N/A	Odor	: AMINE
Solubility in Water	: COMPLETE	Appearance	: WHITE
Freezing Point	: N.D.	Physical State	: SOLID
Evaporation Rate (BuAc=1)	: N.D.	Vapor Density (Air=1)	: N.D.
Viscosity	: N.D.	Percent Volatile by Vol	: N.D.
Boiling Point (°F)	: N.D.		

## 10. STABILITY AND REACTIVITY

GENERAL: **STABLE**

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: **STRONG OXIDIZING AGENTS, STRONG ACIDS, NITRITES, COPPER AND ZINC.**

HAZARDOUS DECOMPOSITION PRODUCTS: **NONE**

## 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: **NOT CONSIDERED A RCRA HAZARDOUS WASTE.**

## 14. TRANSPORT INFORMATION:

DOT (Department of Transportation)  
 Proper Shipping Name: **CORROSIVE SOLID, n.o.s., UN1759, PG III, (CONTAINS DIETHYLAMINOETHANOL).**  
 Hazard Class: **CORROSIVE**      Identification Number: **UN1759**

## 15. REGULATORY INFORMATION

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

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act)      **IF SPILLED, THIS PRODUCT IS NOT SUBJECT TO ANY REPORTING UNDER CERCLA.**

SARA TITLE III (Superfund Amendments and Reauthorization Act)  
 311/312 Hazard Categories: **IMMEDIATE HEALTH HAZARD**  
 313 Reportable Ingredients: **THIS PRODUCT DOES NOT CONTAIN ANY SECTION 313 REPORTABLE INGREDIENTS.**

## 16. OTHER INFORMATION

REFERENCE: **PRODUCT FILE #1586**

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.

N/A: Not Applicable  
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