

MATERIAL SAFETY DATA SHEET

BOND 35

Material Identification and Use

EFFECTIVE DATE.....9/3/97 (Last revision 7-23-97)

MANUFACTURER'S NAME.....INTERNATIONAL CHEMTEX CORPORATION

MANUFACTURER'S ADDRESS .....8287 214th St. West \* Lakeville, MN 55044

MANUFACTURER'S PHONE .....(952) 469-4965

EMERGENCY PHONE NUMBER .....(800) 424-9300 CHEMTREC

DOT SHIPPING NAME .....NA

HAZARD CLASS .....Not Regulated

UN NUMBER .....NA

PRODUCT USE .....This product is designed for use in industrial, commercial or institutional water treatment systems. This product is not for use in potable water systems.

Hazardous Ingredients

Table with 4 columns: HAZARDOUS INGREDIENTS, PERCENT (%), TLV (Units), CAS NUMBER. Row 1: none, NA, NE, N/A

Physical Data

PHYSICAL STATE .....Clear liquid
BOILING POINT .....NA
MELTING POINT.....NE
FREEZING POINT .....NA
VAPOR PRESSURE .....NE
VAPOR DENSITY (air=1).....NE
EVAPORATION RATE.....UN
SOLUBILITY IN H2O.....Complete
VOLATILITY/VOL(%) .....NE
pH .....3.6
SPECIFIC GRAVITY .....1.167
DENSITY (g/ml) .....1.167
ODOR AND APPEARANCE .....Clear liquid.

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**Fire and Explosion Hazard Data**

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FLASHPOINT AND METHOD OF DETERMINATION ..... NA  
AUTO-IGNITION TEMPERATURE ..... UN  
UPPER EXPLOSION LIMIT(% BY VOL) ..... NA  
LOWER EXPLOSION LIMIT(% BY VOL) ..... NA  
MEANS OF EXTINGUISHMENT ..... In case of fire, use water spray, foam, dry chemical or CO<sub>2</sub>.  
HAZARDOUS COMBUSTION PRODUCTS ..... Oxides of carbon, phosphorus and sulfur  
SPECIAL FIREFIGHTING PROCEDURES ..... NONE  
UNUSUAL FIRE AND EXPLOSION DATA ..... Fire fighting equipment: wear positive-pressure, self-contained breathing apparatus.

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**Reactivity Data**

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CHEMICAL STABILITY ..... Stable under normal ambient conditions of temperature and pressure  
HAZARDOUS POLYMERIZATION ..... Will not occur  
INCOMPATIBLE MATERIALS ..... Strong Oxidizers, Strong Bases  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Phosphine, Oxides of Phosphorus, Sulfur and Carbon  
CONDITIONS OF REACTIVITY ..... NA

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**Health Hazard Data**

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ROUTES OF ENTRY  
BY EYE CONTACT ..... Possible  
BY SKIN CONTACT ..... Possible  
BY SKIN ABSORPTION ..... NA  
BY INHALATION ..... Possible  
BY INGESTION ..... Possible  
TLV (UNITS) ..... NE  
ACUTE OVER EXPOSURE EFFECTS ..... Eye irritant. Risk of serious damage of eyes. Possible nausea and/or vomiting if ingested. Causes significant lung irritation.  
CHRONIC OVER EXPOSURE EFFECTS ..... Excessive exposure of the Downfax 2A ingredient may cause liver, kidney effects.

**CARCINOGENIC ACCORDING TO THE FOLLOWING:**

NTP? ..... No  
IARC MONOGRAPHS? ..... No  
OSHA REGULATED ..... No  
OTHER ..... N/A

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**First Aid Measures**

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SPECIFIC FIRST AID PROCEDURES ..... Flush eyes with abundant water. Consult a physician. Promptly remove contaminated clothes. Wash skin with soap and water. If irritation persists, consult a physician. Inhalation: Remove from further exposure if coughing or other symptoms occur. Seek medical attention. Induce vomiting if large amounts are ingested.

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**Preventive Measures**

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LEAK AND SPILL PROCEDURES ..... Contain the spill, large and small spills. Wear appropriate protective clothing and equipment. For large spills, contact local fire or police department for immediate emergency assistance. Small spills may be disposed of at an appropriate waste disposal facility.

WASTE DISPOSAL ..... Dispose of contaminated product via an approved chemical waste disposal firm and in accordance with all federal, state and local regulations.

HANDLING PROCEDURES AND EQUIPMENT ..... Wear a face shield and avoid all skin contact. Handle an open container with care.

STORAGE REQUIREMENTS ..... Store away from incompatible materials. Store in opened containers under cool and dry conditions

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**Control Measures**

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RESPIRATORY PROTECTION ..... NIOSH approved respiratory equipment

VENTILATION

    LOCAL EXHAUST ..... Recommended

    MECHANICAL EXHAUST ..... Adequate

    OTHER.....

PROTECTIVE GLOVES ..... Wear suitable gloves

EYE PROTECTION..... Wear eye/face protection. Avoid contact with eyes.

OTHER PROTECTIVE EQUIPMENT..... Avoid contact with skin.

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**Regulatory Information**

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HAZARD RATING:

HAZARD RATING SCALE:

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Health:	<b>2</b>	0=Minimal	3=Serious
Fire:	<b>0</b>	1=Slight	4=Severe
Reactivity:	<b>1</b>	2=Moderate	
Special Warning:			

**SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III**

Ingredients covered under the following sections:

CERCLA Hazardous Substance - ..... None

SARA Toxic Chemical - SECTION 313:..... Yes

OTHER.....

**IN ACCORDANCE WITH VARIOUS STATE (U.S.) REGULATIONS THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL INGREDIENTS:**

INGREDIENTS	CAS NUMBER
Tetrakis(hydroxymethyl) phosphonium Sulfate, THPS	55566-30-8
Dowfax 2A1 solution surfactant	

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**Preparation Information**

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PREPARED BY .....PTD  
PHONE NUMBER OF PREPARER.....(952) 469-4965

**DISCLAIMER:**

The above information and recommendations are accurate to the best of our knowledge. However, the company assumes no liability for the accuracy or completeness of the information contained herein and disclaims all liability for the reliance thereon. All chemicals present unknown health hazards and should be used with caution. The user should satisfy himself by independent investigation that he has all current data relevant to his particular use.

UN - Unavailable NA - Not Applicable NE - Not Established