



Safety Data Sheet

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:**5730**

OTHER MEANS OF IDENTIFICATION: Clear, colorless to light yellow, basic liquid with a fishy, amine odor similar to ammonia.

RECOMMENDED USE:.....Boiler Water Treatment

RESTRICTIONS ON USE:.....Use only as directed.

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2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:Clear, colorless to light yellow, basic liquid with an amine (ammonia) odor. Product is corrosive to eyes, skin, and respiratory system. Skin absorption, inhalation, or ingestion may also result in toxic effects. May react with acids. Container head space gases may be flammable if exposed to a source of ignition.

CLASSIFICATION 29 CFR 1910.1200: Product is hazardous by OSHA criteria.

Acute Toxicity.....Inhalation (Category 4), H332

Acute Toxicity.....Dermal Category 4

Skin IrritationCategory 2, H315

Flammable liquidCategory 3, H226

Eye IrritationCategory 2A, H319



GHS SIGNAL WORD:.....**Danger**

GHS HAZARD STATEMENTS:

H315: Causes skin irritation

H312+H332: Harmful in contact with skin or if inhaled

H319: Causes serious eye irritation

H332: Harmful if inhaled.



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H333: May be harmful if inhaled: may cause damage to respiratory system by inhalation (aerosol or mist).

H226: Flammable liquid and vapor.

GHS PRECAUTIONARY STATEMENTS:

- P262: Do not get in eyes, on skin, or on clothing.
- P280: Wear protective gloves/protective clothing/eye protection/face protection; when conditions warrant use, add face shield, apron, and/or rubber boots.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P234: Keep only in original packaging.
- P370+378: In case of fire: Use whatever extinguishing media is appropriate for extinction.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately, call a doctor.
- P332+313: If skin irritation occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P501: Dispose of contents/container in accordance with local state and federal regulations.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Diethylhydroxylamine	15-40	3710-84-7

*The exact percent by weight of the ingredients in this formulation is proprietary.

4 – FIRST-AID MEASURES

- INHALATION:**If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.
- INGESTION:**If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.
- EYES:**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Immediately, call a doctor.
- SKIN:**If on skin (or hair): Immediately, take off all contaminated clothing. Rinse skin with water. Use safety shower if available. Immediately, call a doctor.



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5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:.....Use extinguishing media suitable to surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full turn-out gear. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve oxides of nitrogen and oxides of carbon. Vapor is heavier than air. Product emits gases or fumes under fire conditions.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Contain and recover liquids when possible. Flush spill area with water spray.

PERSONAL PRECAUTIONS:....Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots. If spill escapes to sanitary sewer, notify local public works authorities. If spill escapes to the environment, notify state and federal EPA and, if appropriate, the Coast Guard.

7 – HANDLING and STORAGE

STORAGE:.....Store product in closed container in well ventilated, secure area. Protect containers against physical damage. Protect label. The recommended disposal for rinse waters from empty units is discharge to the treated system. Store away from incompatible materials.

HANDLING:Wear appropriate PPE (personal protective equipment) when handling this product. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:Exposure limits for the formulated product are not established. Exposure limits for hazardous ingredients are:

INGREDIENT	SOURCE & PARAMETER	EXPOSURE LIMIT
Diethylhydroxylamine	ACGIH TLV TWA	2 ppm

PROTECTIVE CLOTHING:Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots.

ADDITIONAL MEASURES:General exhaust ventilation is adequate. Avoid sources of ignition. Employ work practices and product transfer practices that avoid spills, drips, or contact with incompatible material.



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9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:clear, colorless to light yellow
BOILING POINT:>212° F
SPECIFIC GRAVITY:Specific gravity, 0.98-1
pH:11-12
SOLUBILITY IN WATER:Completely miscible in water.
FLAMMABILITY:Flammable liquid
ODOR:fishy amine odor similar to ammonia.
EVAPORATION RATE:Similar to water.
MELTING POINT/FREEZING POINT: -25 C (-13 F)
VAPOR PRESSURE:133 hPa (100 mmHg) at 81.5 C (178.7 F)
VAPOR DENSITY:3.08 – (Air = 1.0)
FLASH POINT:163 F

10 – STABILITY and REACTIVITY

REACTIVITY:Product may react with strong acids and strong oxidizers.
STABILITY:Stable at ambient temperatures and pressures.
HAZARDOUS POLYMERIZATION: May react with strong acids and strong oxidizers. Polymerization will not occur.
INCOMPATIBILITY:Strong acids and strong oxidizers.
HAZARDOUS REACTIONS:Contact with strong acids and strong oxidizers. Avoid exposure to sources of ignition.
HAZARDOUS DECOMP:Oxides of nitrogen and oxides of carbon.

11 – TOXICOLOGICAL INFORMATION

COMPONENT	DATA
Diethylhydroxylamine	LD50 Oral 2190 mg/kg Rat LD50 Dermal 1300 mg/kg Rabbit

12 – ECOLOGICAL INFORMATION

COMPONENT	DATA
Diethylhydroxylamine	LC50 >1000 mg/l 96h Fathead Minnow LC50 87.6 mg/l 48h Ceriodaphnia dubia

13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:Dispose of in accordance with local, state and federal regulations. Epa ignitibility characteristic hazardous waste D001 when disposed of in the original product form.



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14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:.....Corrosive Liquid, basic, organic N.O.S. (N,N-Diethylhydroxylamine)
HAZARD CLASS:8
UN/NA NUMBER:UN3267
PACKAGING GROUP :PG III

15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

TSCA STATUS:All ingredients listed or exempt.

SECTION 302/303/313:Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SECTION 311/312:Fire Hazard : Yes
 Reactive Hazard : No
 Release of Pressure : No
 Acute Health Hazard : Yes
 Chronic Health Hazard : No

MASSACHUSETTS RIGHT TO KNOW:No components are subject to Massachusetts’s right to know act.

PENNSYLVANIA RIGHT TO KNOW:.....N,N Diethylhydroxylamine CAS: 3710-84-7

NEW JERSEY RIGHT TO KNOW:.....N,N Diethylhydroxylamine CAS: 3710-84-7

CALIFORNIA PROP. 65:..... This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16 – OTHER INFORMATION

NFPA HAZARD RANKING:

HEALTH	FIRE	REACTIVITY
2	2	0

HMIS HAZARD RANKING:

HEALTH	FIRE	REACTIVITY	PPE
2	2	0	n & p or X (defined below)

n - splash goggles
 p - gloves
 X - consult supervisor



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