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Submitting Organization
XID INC

Contractor

Document Title
INITIAL SUBMISSION: LETTER FROM XID INC RESPONDING TO DYNAMAC CORP REQUEST ON BEHALF OF USEPA FOR PRODUCT AND SAFETY INFORMATION ON N-HEXYLAMINE WITH ATTACHMENTS, DATED 9/1/87

Chemical Category
N-HEXYLAMINE

FYI-94-000046
INIT 07/26/94

FYI-0794-0010

P.O. Box 612, Houston, Texas 77001 Office: 3815 Buffalo Speedway Phone (713) 526-6291 TWX 910-881-3747

OXID INCORPORATED

04940000146

September 1, 1987

Ms. Roberta Wedge
DYNAMAC CORPORATION
The Dynamac Building
11140 Rockville Pike
Pockville, MD 20852

Dear Ms. Wedge:

Enclosed is a Product Information Sheet and MSDS on n-Hexylamine. I hope this will help you. OXID does not have any unpublished toxicity data.

Best regards,

William D. Spoede
Vice President, Marketing

WDS/ab

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EXIP INCORPORATED 101 Concrete Street, Houston, Texas 77012 • (713) 923-9136/TWX 910-997-0079

PRODUCT INFORMATION

EXI A CHEMICAL EXCHANGE INDUSTRIES, INC. COMPANY

N-HEXYLAMINE

C.A.S. Registry No. 111-26-2

Sales Specifications

n-Hexylamine	92.0%
Water	0.5% max.
Color	100 APHA max.
Appearance	Clear liquid free of suspended matter

Typical Analysis

Physical Properties

Boiling Point (at 760 mm)	131° C
Freezing Point	-21° C
Specific Gravity at 20° C	0.767
Molecular Weight	101
Color	50 APHA

Typical Composition

n-Hexylamine	94 - 96%
Other C_5-C_6 Amines	2 - 4%
Water	0.3
Unknowns and secondary amines	0.5 - 1.0%

Toxicological Data

Acute Oral Toxicity (LD_{50} rats)	670 mg/kg
Dermal Toxicity (LD_{50} rabbits)	420 mg/kg

This information is offered for your consideration, investigation and verification. It should not be construed as a warranty, guaranty nor as permission or recommendation to practice any patented invention without a license.

CKID, INC. (SUBSIDIARY OF CHEMICAL EXCHANGE IND., INC.)
101 CONCRETE STREET
HOUSTON, TX 77012
(713) 923-9136/Emergency Phone (713) 455-0706

MATERIAL SAFETY DATA SHEET
n-HEXYLAMINE

I. IDENTIFICATION

PRODUCT NAME: n-HEXYLAMINE **REVISION DATE:** 1/23/87

CHEMICAL NAME: Normal Hexylamine

FORMULA: $CH_3(C_2H_2)_5NH_2$

SYNONYMS: Normal Hexylamine, NHA **MOLECULAR WT:** 101

DOT SHIPPING NAME: Flammable Liquid Corrosive N.O.S.

DOT HAZARD CLASS: Flammable, Corrosive. **UN NO:** 2924

CHEMICAL FAMILY: Amine

II. PHYSICAL DATA

SPECIFIC GRAVITY (H_2O=1): .778

PHYSICAL DESCRIPTION: Clear, pale yellow liquid, pungent, characteristic amine odor.

BOILING PT: 247-266°F

SOLUBILITY IN WATER WT %: Slightly soluble. (1.2 g/100 ml.)

FREEZING PT: -9°F

VAPOR PRESSURE mm Hg: 6.5 **AT TEMP OF:** 68°F

EVAPORATION RATE (Butyl Acetate=1): Not known.

III. HAZARDOUS COMPONENTS GREATER THAN 1% (Carcinogens listed if greater than 0.1%)

n-Hexylamine.

CXID, INC. (SUBSIDIARY OF CHEMICAL EXCHANGE IND., INC.)
101 CONCRETE STREET
HOUSTON, TX 77012
(713) 923-9136/Emergency Phone (713) 455-1206

MATERIAL SAFETY DATA SHEET
n-HEXYLAMINE

IV. HEALTH HAZARD DATA

SWALLOWING: Do not take internally. Oral LD_{50} (Rats) - 670 mg/kg.
SKIN CONTACT: Corrosive to skin tissue. Dermal LD_{50} (Rabbits) - 420 mg/kg.
INHALATION: Prolonged exposure to vapors is harmful. 2 of 6 rats died when exposed to 500 ppm vapor for 4 hours.
EYE CONTACT: Strong eye irritant in aqueous concentration of more than 5%.
SYMPTOMS: Irritation of skin, mucous membranes and respiratory tract.
SPECIAL MEDICAL CONDITIONS BY EXPOSURE: Poisonous. Active pressor agent.
PRIMARY ROUTE OF ENTRY: Skin contact; inhalation.
EXPOSURE LIMITS: Not established. However, the vapor toxicity of n-Hexylamine is similar to n-Butylamine (TLV 5ppm) and n-Amylamine (TLV 25ppm).
POTENTIAL CARCINOGENS: None known.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING: Induce vomiting. Contact physician.
SKIN: Wash any area of body that comes in contact with neutral range solution.
INHALATION: Remove personnel from contaminated area.
EYES: Flush eyes for 15 minutes. Contact physician.

V. FIRE AND EXPLOSION HAZARD DATA

FLASH PT: Tag Open Cup 100°F
FLAMMABLE LMTS, VOL % **LEL:** 1.8 **UEL:** 8.5
NORMAL EXTINGUISHING AGENT: Water, foam, CO_2, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Wear complete personal protective equipment.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS: May generate ammonia, product is considered flammable.

VI. REACTIVITY DATA

STABLE: X **UNSTABLE:**
CONDITIONS TO AVOID: Extreme heat.
INCOMPATIBILITY (Materials to avoid): Avoid use of brass or copper in any handling systems. Do not mix with strong acids.
HAZARDOUS COMBUSTION OR HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia and light amines by thermal decomposition.

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MATERIAL SAFETY DATA SHEET
n-HEXYLAMINE

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Absorb with absorbent, dilute any remaining material with large quantities of water. Ventilate enclosed areas and keep people away.
WASTE DISPOSAL METHOD: Supervised incineration is recommended.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Have appropriate NIOSH approved respirator available.
PROTECTIVE GLOVES: Rubber or neoprene.
EYE PROTECTION: Face shield.
VENTILATION: Use only in well ventilated areas. Face velocity 60 fpm. Explosion proof equipment.
SPECIAL EQUIPMENT: Rain suit, rubber boots.

IX. SPECIAL PRECAUTIONS

HANDLING AND STORING: Whatever personal protection equipment is necessary to prevent skin contact.
OTHER: None.