

SAFETY DATA **SHEET**

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TRANSENE COMPANY, INC.
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MATERIAL NAME: **NICKEL B ADDITIVE**

REVISED: April 2016

CHEMICAL FAMILY: Amine

Product Number: 110-0009000

SECTION 2. HEALTH HAZARD INFORMATION

GHS Classifications

H301: Acute toxicity oral : Category 3

H333: Acute toxicity inhalation : Category 5

H316: Skin corrosion / skin irritation : Category 3

H320: Serious eye damage / Eye irritation : Category 2B

H317: Respiratory or skin sensitization : Skin sensitization Category 1

H371: Special target organ systemic toxicity single exposure: Category 2

H373: Special target organ systemic toxicity repeated exposure : Category 2

Pictograms or Hazard symbols



Danger: Toxic if swallowed.



Warning: Causes eye irritation. May cause an allergic skin reaction.

May be harmful in contact with skin or if inhaled.



Toxic to aquatic life with long lasting effects.

Precautionary Statements

P260 Do not breathe fume/gas/mist/vapors.

P261 Avoid breathing fumes/mist/vapors.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the work place.
P280 Wear protective gloves, clothing, and eye and face protection.
P301 + P310 If swallowed, immediately call a physician.
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.
P304 + P312 If inhaled, call a physician if you feel unwell.
P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.
P308 + P311 If exposed or concerned, call a physician.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P332 + P313 If skin irritation occurs, get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists, get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %
Dimethylamine Borane	CAS# 74-94-2	9.7
Dimethylamine	CAS# 124-40-3	0.3
Water	CAS# 7732-18-5	90
Total		100

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Eye Contact: Both liquid and vapor are corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

Skin Contact: Obtain medical attention: Both liquid and vapor are corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

Ingestion: Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water. Can affect kidney function and be fatal if swallowed.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
non-flammable	NA		NA	NA

Extinguishing media: Carbon dioxide, dry extinguishing media, water spray.

Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes.

Toxic gases released: Hydrogen, dimethylamine, diborane

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS: Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel must wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Do not flush to sewer.

SECTION 7. HANDLING AND STORAGE

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe mist or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area. Residue in empty containers may still be hazardous.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory protection: Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to vapors above 0.1ppm. A respiratory protection program complying with requirements of 29CFR 1910.134 is recommended.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

Protective gloves: Skin contact should be minimized through use of acid resistant gloves.

Other protective equipment: Steel tipped shoes/eye wash station/chemical safety chemical retardant clothing.

Eye protection: Safety goggles / face shield. Do not wear contact lenses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	Liquid
Appearance :	Colorless
Odor :	Fishy
pH :	> 7
Melting point:	Not available
Boiling point/Boiling range :	103-105 °C
Flash point :	Non-flammable.
Ignition point :	Will not ignite.
Danger of explosion:	Product is not explosive
Decomposition temperature:	> 150 °C
Vapor density (Air = 1) :	1.3 @ 70 °F
Volatiles, %:	90
Vapor pressure at 15° C, mm Hg:	~0.08
Specific gravity :	1.02
Solubility in / Miscibility:	Completely miscible in water
Evap. Rate (Water = 1):	No information found

SECTION 10. STABILITY AND REACTIVITY

Stability Stable X Conditions to avoid: Excess heat , sunlight, confined spaces
Unstable

Incompatible with:

Concrete, carbonates, sulfides, cyanides, common metals.

Hazardous decomposition products: Hydrogen gas, dimethylamine, diborane.

Hazardous May occur Conditions to avoid: Excess heat, direct sunlight.
polymerization: Will not occur X

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE:

LD₅₀ (oral, rat): 590 mg/kg

LC₅₀ (inhalation, rat): > 58 mg/L/4 h

LD₅₀ (dermal, rat): 39 g/kg

SUBCHRONIC and CHRONIC:

The substance is not mutagenic to bacteria.

OTHER DATA:

Together with nitrosating agents (nitrites, nitrogen oxides) nitrosamines may be formed under certain conditions. Nitrosamines showed a carcinogenic effect in animal experiments.

SECTION 12. ECOLOGICAL INFORMATION

Not readily biodegradable. Accumulation in organisms is not expected.

Acute:

LC₅₀ (zebra fish): 323 mg/L (96 h)

EC₅₀ (green algae): 31.3 mg/L

EC₅₀ (aerobic bacteria): 23.73 mg/L

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility. If permitted by regulations, neutralize with alkali.

SECTION 14. TRANSPORTATION INFORMATION

Shipping Name: Non-restricted

SECTION 15. REGULATORY

Symbol: T, Toxic

R-Phrase:

R25: Toxic if swallowed

S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16. OTHER INFORMATION

NFPA Codes:

Health: 1

Flammability: 0

Reactivity: 0

WHMIS Codes:

Health: 2

Flammability: 0

Reactivity: 0

Ingredients are TSCA listed.

