

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: TRANSENE COMPANY, INC.
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EMERGENCY NO. 1-800-424-9300 CHEMTREC

MATERIAL NAME: **NICKEL ETCHANT TFG**

REVISED: July 2013

CHEMICAL FAMILY: Acidic aqueous solution

Product Number: 060-0017000

SECTION 2. HEALTH HAZARD INFORMATION

Hazard Statements

H290 Corrosive to Metals: Category 1

H302 Acute toxicity Oral : Category 4

H312 Acute Toxicity Dermal: Category 4

H332 Acute toxicity Inhalation : Category 4

H315 Skin corrosion / Skin irritation : Category 2

H319 Serious eye damage / Eye irritation : Category 2

H371 Special target organ systemic toxicity single exposure: Category 2

H373 Special target organ systemic toxicity repeated exposure : Category 2

Pictograms or Hazard symbols



Warning: May be corrosive to metals



Warning: Harmful if swallowed, in contact with skin, or inhaled.



Warning: Causes skin irritation and serious eye irritation.



Warning. Health hazard. May cause damage to teeth.

Precautionary Statements

P234 Keep only in original container.
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.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, clothing, and eye and face protection.
P301 + P312 If swallowed, call a physician if you feel unwell.
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.
P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.
P308 + P311 If exposed or concerned, call a physician.
P312 Call a physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P330 Rinse mouth.
P332 + P313 If skin irritation 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.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P406 Store in corrosive resistant container.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %	Toxicity
Thiourea	CAS# 62-56-6	< 1	
Sodium n-nitrobenzenesulfonate	CAS# 127-68-4	10-15	5 mg/m3 (PEL, TLV)
Sulfuric Acid	CAS# 7664-93-9	< 10	
Water	CAS# 7732-18-5	> 75	
Total		100	

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause blindness. Vapors may be irritating to eyes. Seek medical attention.

Skin Contact: Obtain medical attention: 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 mist or fumes are inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Effects may be delayed. May cause chemical burns to the respiratory tract.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method non-flammable	Autoignition Temp. NA	Flammability Limits In Air	<u>LOWER</u> NA	<u>UPPER</u> NA
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Extinguishing media: Use extinguishing media appropriate for the surrounding fire.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS: Ventilate area of leak or spill. Clean up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite.

SECTION 7. HANDLING AND STORAGE

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe dust, mist, or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from metals, alkali, and organics.

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 rubber gloves.

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

Eye protection: Safety goggles / face shield

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	Liquid
Appearance :	Yellow
Odor :	Acrid, sulfurous
pH :	< 1
Melting point:	Not available
Boiling point/Boiling range :	100 °C (water)
Flash point :	Non-flammable.
Ignition point :	Will not ignite.
Danger of explosion:	Product is not explosive
Decomposition temperature:	Not available
Vapor density (Air = 1) :	Not available
Volatiles, %:	> 75
Vapor pressure at 15° C, mm Hg:	Not available

RQ: 1,000 lbs

SECTION 15. REGULATORY

Symbol: C, Corrosive

R-Phrase:

R: Contact with combustible material may cause fire.

R21/22: Harmful in contact with skin and if swallowed.

R35: Causes severe burns.

R41: Risk of serious damage to eyes.

S-Phrases:

S17: Keep away from combustible material.

S23-36/37/39-45 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).

The following component of this product is regulated as a toxic chemical under section 313 or Title III SARA, and 40CFR 372:

Thiourea CAS# 62-56-6

SECTION 16. OTHER INFORMATION

NFPA Codes:

Health: 3

Flammability: 0

Reactivity: 1

R8: Contact with combustible material may cause fire.

R35: Causes severe burns.

All ingredients of this product are listed on the US TSCA inventory under their parent anhydrous compounds.

