



# TECHNIC, INC.

## MATERIAL SAFETY DATA SHEET

### SECTION I PRODUCT IDENTIFICATION

TRADE NAME (as labeled):

**NICKEL SULFAMATE RTU**

CHEMICAL NAMES, COMMON NAMES: Nickel Sulfamate, Nickel Bromide

MANUFACTURER'S NAME & ADDRESS:

TECHNIC, INC.

1 SPECTACLE STREET

CRANSTON, RI 02910

EMERGENCY PHONE: (401) 781-6100

24 hour Emergency: Chem Trec 1-800-424-9300

NAME OF PREPARER: WILLIAM A. WILSON

DATE PREPARED: July 15, 1997

### SECTION II HAZARDOUS INGREDIENTS

#### CHEMICAL NAMES

#### CAS NUMBER

#### PERCENT

#### EXPOSURE LIMITS

Nickel Sulfamate  
 $\text{Ni}(\text{NH}_4)_2 \cdot \text{SO}_4 \cdot 6\text{H}_2\text{O}$

13770-89-3

25.60%

TWA = 0.05 mg  $\text{Ni}^{+2}$  /  $\text{M}^3$  ACGIH

Nickel Bromide  
 $\text{NiBr}_2$

13642-88-9

0.90%

TWA = 0.05 mg  $\text{Ni}^{+2}$  /  $\text{M}^3$  ACGIH

The remainder of this solution consists of weak inorganic acid and water that are not considered as hazardous. The materials in this solution are listed on the TSCA inventory. This material is regulated as a toxic chemical under Section 313 of Title III/SARA, and 40 CFR, Part 372. This material contains ingredients known to the State of California to cause cancer. For purposes of the New Jersey Right To Know Law, the contents are partially unknown.

### SECTION III PHYSICAL PROPERTIES

AIR DENSITY (AIR=1)

N.A.

SPECIFIC GRAVITY: 1.26

AIR PRESSURE (mm Hg)

N.A.

MELTING POINT (degrees F) N.A.

EVAPORATION RATE (BUTYL ACETATE=1)

N.A.

BOILING POINT (degrees F) N.D.

SOLUBILITY IN WATER:

Complete.

APPEARANCE AND ODOR:

Dark green solution; slight saline odor.

### SECTION IV FIRE AND EXPLOSION

FLASH POINT (°F) (METHOD USED):

N.A. (Does not burn.)

AUTOIGNITION TEMPERATURE, F.

N.A.

FLAMMABLE LIMITS IN AIR, VOLUME %:

LOWER LIMIT

N.A.

UPPER LIMIT

N.A.

FIRE EXTINGUISHING MATERIALS:

Use media appropriate for the surrounding fire.

WATER SPRAY  
FOAM

CARBON DIOXIDE  
DRY CHEMICAL

OTHER:

SPECIAL FIREFIGHTING PROCEDURES:

Wear a NIOSH/MSHA approved, self-contained breathing apparatus and protective gear if fully involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

## SECTION V HEALTH HAZARD INFORMATION

## SYMPTOMS OF OVER-EXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE.

INHALATION: Upper respiratory tract irritation. Hypersensitive individuals may develop asthma bronchitis.

CONTACT WITH SKIN OR EYES: Irritation, allergic sensitization in some individuals in the presence of heat and humidity. ("Nickel Itch")

ABSORBED THROUGH SKIN: No.

SWALLOWED: Nausea, gastrointestinal problems, unconsciousness.

## HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS. ATTACH EXTRA PAGE IF MORE SPACE IS NEEDED.

ACUTE: Local: Irritant, Allergen, Ingestion, Inhalation - Slight. Causes readily reversible changes which disappear after end of exposure.

Systemic: Ingestion, Inhalation - Slight. Causes readily reversible changes which disappear after end of exposure.

CHRONIC: Local: Irritant, Allergen - Slight to Moderate. May involve both irreversible and reversible changes; not severe enough to cause death or permanent injury.

Systemic: Inhalation - Moderate. May involve both irreversible and reversible changes; not severe enough to cause death or permanent injury.

## FIRST AID: EMERGENCY PROCEDURES

EYE CONTACT: Flush with water (15 minutes or longer). Call physician.

SKIN CONTACT: Wash thoroughly with soap and water. Call physician.

INHALED: Remove to fresh air. If breathing difficulties develop, call physician.

SWALLOWED: Induce vomiting if conscious, maintain respiration, call physician.

SUSPECTED CANCER AGENT? ☐ NO ☒ YES

## SECTION VI REACTIVITY DATA

STABILITY: ☒ STABLE ☐ UNSTABLE

CONDITIONS TO AVOID: Do not mix with cyanides.

INCOMPATIBILITY (MATERIALS TO AVOID): Cyanides.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Sulfur and nitrogen oxides, nickel residue.

HAZARDOUS POLYMERIZATION: ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: None.



SECTION VII 

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 SPILL, LEAK AND DISPOSAL PROCEDURES 

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## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contain spill by dam or absorption on clay or sawdust. Collect and dispose of at a proper waste disposal facility or reclaim the nickel.

See Section VIII for employee protection.

## WASTE DISPOSAL: SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

SECTION VIII 

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 SPECIAL HANDLING INFORMATION 

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VENTILATION:	General exhaust.
RESPIRATORY PROTECTION:	Not required.
EYE PROTECTION:	Chemical goggles or face shield.
GLOVES:	Rubber gloves.
OTHER CLOTHING AND EQUIPMENT:	Rubber apron, long-sleeved shirts.
WORK PRACTICES, HYGIENIC PRACTICES:	Wash thoroughly after handling.
OTHER HANDLING AND STORAGE REQUIREMENTS:	Keep container closed and away from cyanides. Store in a cool, dry place. (55-85 °F)

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