

# Material Safety Data Sheet

Required under USDL Safety and Health Regulations  
for Shipyard Employment (29 CFR 1915)

## U.S. Department of Labor

Occupational Safety and Health Administration



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Sodium Thiocyanate

CAS No. 540-72-7

### Section I

Manufacturer's Name

Sargent-Welch Scientific Company

Emergency Telephone Number

312-677-0600

Address (Number, Street, City, State, and ZIP Code)

7300 N. Linder Ave.

Chemical Name  
and Synonyms

Sodium Thiocyanate

Trade Name  
and Synonyms

Sodium Sulfocyanate

Chemical  
Family

Formula

NaSCN

### Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

% TLV (Units)

Alloys and Metallic Coatings

% TLV (Units)

Pigments

Not Applicable

Base Metal

Not Applicable

Catalyst

Alloys

Vehicle

Metallic Coatings

Solvents

Filler Metal  
Plus Coating or Core Flux

Additives

Others

Others

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

Not Applicable

### Section III - Physical Data

Boiling Point (°F)

Decomposes

Specific Gravity (H<sub>2</sub>O=1)

Vapor Pressure (mm Hg.)

NA

Percent Volatile by Volume (%)

NA

Vapor Density (AIR=1)

NA

Evaporation Rate

NA

Solubility in Water

Soluble

Appearance and Odor

White granules crystals, odorless.

### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

Non-flammable

Flammable Limits

NA

Let

Uel

Extinguishing Media

Water

Special Fire Fighting Procedures

Wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards

Decomposes in fire conditions to form toxic hydrogen sulfide and hydrogen cyanide.

**Section V - Health Hazard Data**

Threshold Limit Value

Oral (rat) LD50 = 764mg/kg.

Effects of Overexposure

Harmful if swallowed. May cause irritation to eyes, skin and respiratory system.

**Emergency First Aid Procedures**

EYES: Flush eyes with flowing water for at least 15 minutes. Seek medical attention.  
SKIN: Wash contact area thoroughly with soap and water. Seek medical attention if irritation develops or persists. INHALATION: Move to fresh air. Seek medical attention.  
INGESTION: If conscious, have patient drink water or milk and induce vomiting. Seek immediate medical attention.

**Section VI - Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Oxidizing agents, strong mineral acids.

Hazardous Decomposition Products

Hydrogen sulfide; hydrogen cyanide.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

**Section VII - Spill or Leak Procedures**

Steps to be Taken in Case Material is Released or Spilled

Wear protective equipment. Gather up spilled material and place in a sealed container for disposal in an approved land fill.

Waste Disposal Method

Disposal in accordance with all applicable federal, state and local environmental regulations.

**Section VIII - Special Protection Information**

Respiratory Protection (Specify Type)

NIOSH approved dust respirator

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Yes

Emergency eye wash

Protective Gloves

Rubber gloves

Eye Protection

Goggles

Other Protective Equipment

Laboratory apron or coat

**Section IX - Special Precautions**

Precautions to be Taken in Handling and Storing

Store in a tightly closed container in a cool, dark, dry area. Keep away from oxidizing agents and mineral acids.

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