



# MATERIAL SAFETY DATA SHEET

## 4-NITROTHIOPHENOL

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Asemblon has evaluated its products in light of OSHA regulations and European Union Directives. As of the date of this publication, the chemical, physical, and toxicological properties of these products have not been thoroughly investigated. This MSDS is written to apply to known hazards of these products and Good Laboratory Practices.

<u>REF</u>	<u>Name</u>
061078-029	4-Nitrothiophenol

<b>MANUFACTURER/SUPPLIER:</b>	Asemblon, Inc. 15340 NE 92 <sup>nd</sup> St, Ste B, Redmond, WA 98052-3521 USA	<b>Phone:</b> Toll free: 888.465.3710
<b>EMERGENCY CONTACT:</b>	<b>(800) 424-9300 (CHEMTREC)</b>	<b>Outside US:</b> +1.425.558.5100 <b>FAX:</b> +1.425.869.1836

### COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>
4-Nitrothiophenol	1849-36-1	No

C6 H5 N O2 S

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Irritant. Irritating to eyes, respiratory system & skin. Stench

**HMIS Rating**

**NFPA Rating**

Health: 2

Health: 2

Flammability: 0

Flammability: 0

Reactivity: 0

Reactivity: 0

See Section 11 for additional information

### 4. FIRST-AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Wash out mouth with water. Get medical attention. Never give anything by mouth to an unconscious person.

**Skin Contact:** Immediately wash area with soap and plenty of water.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

### 5. FIRE-FIGHTING MEASURES

FLASH POINT: NA

AUTOIGNITION TEMPERATURE: NA

FLAMMABILITY: NA

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**Protective Equipment for Fire-Fighting:** Wear full protective clothing to prevent contact with skin and eyes and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Specific Method(s) of Fire Fighting: Use water spray to cool fire-exposed containers.

### 6. ACCIDENTAL RELEASE MEASURES

For clean-up, wear respirator, rubber boots, and heavy rubber gloves. Sweep up and place in a bag and hold for waste disposal. Avoid raising dust. Avoid prolonged or repeated exposure. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

**HANDLING:** Do not breathe vapor. Avoid contact with eyes, skin, and clothing.

**SUITABLE STORAGE:** Keep tightly closed. Store in a cool dry place.

### 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

**ENGINEERING CONTROLS**

Use only in chemical fume hood. Safety shower and eye wash

**PERSONAL PROTECTIVE EQUIPMENT**

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

**GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow Form: Solid, crystals



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Odor: Stench	
<u>Property</u>	<u>Value</u>
Molecular Weight	155.17 AMU
MP, MP range	162 °F 72 °C
Density	No information found.
Boiling Point	No information found.
Flash Point	No information found.
Solubility in water	No information found.
Explosion Limits	No information found.
Flammability	No information found.
Autoignition	No information found.

### 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Conditions to Avoid:** None identified.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Sulfur oxides, Carbon monoxide, Carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

#### ROUTE(S) OF EXPOSURE

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

#### SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: nausea, headache, and vomiting.

### 12. ECOLOGICAL INFORMATION

No information found.

### 13. DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

### 14. TRANSPORTATION INFORMATION

**DOT:** Proper Shipping Name: Aviation Regulated Solid, N.O.S.

UN#: 3335

Class: 9

Packing Group: Packing Group III

Hazard Label: Class 9

PIH: Not PIH

**IATA:** Proper Shipping Name: Aviation Regulated Solid, N.O.S.

IATA UN Number: 3335

Hazard Class: 9

### 15. REGULATORY INFORMATION

#### EU REGULATORY INFORMATION

**Symbol of Danger:** Xi

**Indication of Danger:** Irritant

**R Phrases:** 36-38 Risk Statements: Irritating to eyes, respiratory system and skin. Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitization by inhalation and skin contact.

**S Phrases:** .26-36

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful

Risk Statements: Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitization by inhalation and skin contact.

Safety Statements: 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.

#### UNITED STATES REGULATORY INFORMATION

**SARA LISTED:** No **TSCA:** No

#### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

### 16. OTHER INFORMATION

**PRODUCT INFORMATION:** (888) 465-3710

**Product Use:** For R&D use only. Not for drug, household or other uses.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results, which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.



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**MSDS first issued:** 10/2008

**MSDS data revised:**

**EC Legislation:** EC Directive 91/155/EEC, 67/548/EEC as amended and adapted to technical progress and 88/379/EEC relating to the classification, packaging, labeling and arrangements for provision of specific information of dangerous substances or preparations. Other EC or national legislation and standards may apply.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results, which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.