SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Sodium Thiocyanate,

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25572

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:
AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:
Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:
Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2: Hazards identification

Classification of the substance or mixture:

![Irritant]

AcTox Oral 4
AcTox Inhaln 4
AcTox Dermal 4
Aquatic Tox. 3

Signal word: Warning

Hazard statements:
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes serious eye irritation
Harmful to aquatic life with long lasting effects

Precautionary statements:
If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash ... thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Avoid release to the environment
Wear protective gloves/protective clothing/eye protection/face protection
Do not eat, drink or smoke when using this product
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Created by Global Safety Management, Inc. - Tel: 1-813-435-5161 - www.gsmsds.com
Specific measures (see ... on this label)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Rinse mouth
IF ON SKIN: Wash with soap and water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
Continue rinsing
If eye irritation persists get medical advice/attention
Wash contaminated clothing before reuse
Dispose of contents/container to ...

Combustible Dust Hazard: :
May form combustible dust concentrations in air (during processing).

Other Non-GHS Classification:

SECTION 3 : Composition/information on ingredients

Ingredients:

| CAS 540-72-7 | Sodium Thiocyanate | >98 % |

PERCENTAGES ARE BY WEIGHT

SECTION 4 : First aid measures

Description of first aid measures

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. If breathing difficult, give oxygen. Remove to fresh air. Give artificial respiration if necessary. Seek immediate medical attention or advice.

**After skin contact:** Rinse area with water for 10-15 minutes. Seek immediate medical attention or advice.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek immediate medical attention or advice.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water or milk. Seek immediate medical attention or advice.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath;

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention, provide SDS document to physician. Note to physician: Treat symptomatically.
SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container. Avoid contact with skin and eyes, and clothing. Use spark-proof tools and explosion-proof equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Do not allow this material to enter the environment.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Clean up spills immediately. Always obey local regulations.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Minimize dust generation and accumulation. Wash hands after handling. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid generation of dust or fine particulate. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed. Protect from freezing and physical damage.

SECTION 8 : Exposure controls/personal protection
Control Parameters: 540-72-7, Sodium Thiocyanate, OSHA PEL: 5mg/m³ TWA

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Protection of skin: The glove material has to be impermeable and resistant to the product/the substance/the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance (physical state,color):</th>
<th>White solid</th>
<th>Explosion limit lower:</th>
<th>Non Explosive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>Odorless</td>
<td>Vapor pressure:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not Applicable</td>
<td>Vapor density:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>pH-value:</td>
<td>5.5-7.5 (@ 20 ) 5% aq.sol. 20°C</td>
<td>Relative density:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting/Freezing point:</td>
<td>287°C / 548.6°F</td>
<td>Solubilities:</td>
<td>Soluble in Water</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Not Applicable</td>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash point (closed cup):</td>
<td>Not Applicable</td>
<td>Auto/Self-ignition temperature:</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
### Sodium Thiocyanate,

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>No Information</td>
</tr>
<tr>
<td>Viscosity</td>
<td>a. Kinematic: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>b. Dynamic: Not Applicable</td>
</tr>
<tr>
<td>Density</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### SECTION 10 : Stability and reactivity

**Reactivity:** Material is light sensitive.

**Chemical stability:** No decomposition if used and stored according to specifications.

**Possible hazardous reactions:** None under normal processing

**Conditions to avoid:** Store away from oxidizing agents, strong acids or bases. Incompatible Materials.

**Incompatible materials:** Strong acids, strong bases, oxidizing agents.

**Hazardous decomposition products:** Carbon oxides, sulphur oxides, sodium oxides. Nitrogen oxides (NOx).

### SECTION 11 : Toxicological information

**Acute Toxicity:**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
<th>LD50 rat:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>232mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

**Sensitization:** No additional information.

**Single Target Organ (STOT):** No additional information.

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

### SECTION 12 : Ecological information

**Ecotoxicity Persistence and degradability:** Readily degradable in the environment.

**Bioaccumulative potential:**

**Mobility in soil:**

**Other adverse effects:**

### SECTION 13 : Disposal considerations

**Waste disposal recommendations:**

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.
SECTION 14 : Transport information

UN-Number
UN proper shipping name
Transport hazard class(es)
Packing group:
Environmental hazard:
Transport in bulk:
Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)
SARA Section 311/312 (Specific toxic chemical listings):
None of the ingredients is listed
SARA Section 313 (Specific toxic chemical listings):
None of the ingredients is listed
RCRA (hazardous waste code):
None of the ingredients is listed
TSCA (Toxic Substances Control Act):
All ingredients are listed.
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):
None of the ingredients is listed

Proposition 65 (California):
Chemicals known to cause cancer:
None of the ingredients is listed
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed
Chemicals known to cause developmental toxicity:
None of the ingredients is listed

Canada
Canadian Domestic Substances List (DSL):
All ingredients are listed.
Canadian NPRI Ingredient Disclosure list (limit 0.1%):
None of the ingredients is listed
Canadian NPRI Ingredient Disclosure list (limit 1%):
None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the
SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:**

**Abbreviations and acronyms:**
- IMDG: International Maritime Code for Dangerous Goods
- PNEC: Predicted No-Effect Concentration (REACH)
- CFR: Code of Federal Regulations (USA)
- SARA: Superfund Amendments and Reauthorization Act (USA)
- RCRA: Resource Conservation and Recovery Act (USA)
- TSCA: Toxic Substances Control Act (USA)
- NPRI: National Pollutant Release Inventory (Canada)
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)

**Effective date:** 12.16.2014

**Last updated:** 03.19.2015