

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/12/2014 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : Ammonium Thiocyanate

CAS No : 1762-95-4
Product code : LC11340
Formula : NH4SCN

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.

1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Aquatic Chronic 3 H412

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P261 - Avoid breathing dust

P264 - Wash exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable

for breathing

P312 - Call a POISON CENTER/doctor/physician if you feel unwell

P330 - If swallowed, rinse mouth

P362+P364 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)

No data available

05/12/2014 EN (English) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

Substance

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
 Ammonium Thiocyanate (Main constituent)	(CAS No) 1762-95-4	100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

3.2. **Mixture**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of

soap and water. Wash contaminated clothing before reuse.

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

persist.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER/doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

: Repeated exposure to this material can result in absorption through skin causing significant Symptoms/injuries after skin contact

health hazard. Harmful in contact with skin.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any Firefighting instructions

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 6.1.1.

Protective equipment : Safety glasses, Gloves, Dust mask, **Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from

other materials.

05/12/2014 EN (English) 2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapour.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Keep container closed when not in use.

Incompatible products : Strong oxidizers. Strong acids. lead nitrate.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 76.12 g/mol

Colour : Colourless.

Odour : None.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available

Melting point : 150 °C

Freezing point : No data available : No data available **Boiling point** No data available Flash point : No data available Self ignition temperature Decomposition temperature No data available Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available Density 1.3 g/cm³

Solubility : Soluble in water. Soluble in acetone. Soluble in ammonia. Soluble in ethanol.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

05/12/2014 EN (English) 3/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Strong acids. Strong oxidizers. lead nitrate.

10.6. Hazardous decomposition products

Nitrogen oxides. Carbon dioxide. Carbon monoxide. Sulfur compounds. Gaseous ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

: Skin and eye contact

Ammonium Thiocyanate (\f)1762-95-4		
LD50 oral rat	750 mg/kg	
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Not classified	
Respiratory or skin sensitisation	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
Specific target organ toxicity (single exposure)	Not classified	
Specific target organ toxicity (repeated exposure)	Not classified	
Aspiration hazard	Not classified	
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met. Harmful if swallowed. Harmfu contact with skin.	l in
Symptoms/injuries after skin contact	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.	
Symptoms/injuries after ingestion	Swallowing a small quantity of this material will result in serious health hazard.	

SECTION 12: Ecological information

12.1. Toxicity

Likely routes of exposure

Ecology - water : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Ammonium Thiocyanate (1762-95-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

05/12/2014 EN (English) 4/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3. Bioaccumulative potential

Ammonium Thiocyanate (1762-95-4)

Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

Additional information

Other information : No supplementary information available.

ADR

Transport document description :

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Ammonium i niocyanate (1762-95-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

RQ (Reportable quantity, section 304 of EPA's 5000 lb List of Lists):

15.2. International regulations

WHMIS Classification

CANADA

	Ammonium Thiocyanate (1762-95-4)
Listed on the Canadian DSL (Domestic Sustances List) inventory.	

Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

Ammonium Thiocyanate (1762-95-4)

Not listed on the Canadian Ingredient Disclosure List

05/12/2014 EN (English) 5/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

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Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category	
	3	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H332	Harmful if inhaled	
H412	Harmful to aquatic life with long lasting effects	

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

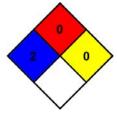
incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

Personal Protection : E

SDS US (GHS HazCom 2012)

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05/12/2014 EN (English) 6/6