



# SAFETY DATA SHEET

Preparation Date: 12/09/2016

Revision Date: 12/09/2016

Revision Number: G1

## 1. IDENTIFICATION

### Product identifier

**Product code:** A1250  
**Product Name:** AMMONIUM SULFIDE, LIGHT SOLUTION, REAGENT

### Other means of identification

**Synonyms:** No information available  
**CAS #:** Mixture  
**RTECS #** Not available  
**CI#:** Not available

### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000.

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 3

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
Flammable liquid and vapor

**Product code:** A1250

**Product name:** AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

1 / 13



#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/.../equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

*Immediately call a POISON CENTER or doctor/physician*  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a POISON CENTER or doctor/physician.  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 Wash contaminated clothing before reuse  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Water	7732-18-5	76-80
Ammonium Sulfide	12135-76-1	20-24

## 4. FIRST AID MEASURES

### First aid measures

<b>General Advice:</b>	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. <b>WARNING!</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Severe skin and eye irritation or burns. Possible eye damage. Causes digestive (gastrointestinal) tract irritation. May cause gastrointestinal (digestive) tract burns. May cause nausea and vomiting. May affect the cardiovascular system. Hypotension. Dyspnea (Shortness of breath and difficulty breathing). Respiratory depression. May cause cyanosis. May cause central nervous system effects. May cause headache. May affect behavior/central nervous system (tremor, convulsions).
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### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician:</b>	Treat symptomatically.
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### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

<b>Suitable Extinguishing Media:</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray mist or foam.
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<b>Unsuitable Extinguishing Media:</b>	No information available.
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### Specific hazards arising from the chemical

<b>Hazardous Combustion Products:</b>	Sulfur Oxides. Sulfur dioxide. Hydrogen sulfide.
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<b>Specific hazards:</b>	Flammable
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**Product code:** A1250

**Product name:** AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

**3 / 13**

Container explosion may occur under fire conditions or when heated  
Vapors may form explosive mixtures with air  
Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks)  
Vapor may travel considerable distance to source of ignition and flash back

### **Special Protective Actions for Firefighters**

#### **Specific Methods:**

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

#### **Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

#### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

#### **Methods for cleaning up**

Use appropriate tools to put the spilled solid in a suitable waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials. Do not allow contact with water.

#### **Safe Handling Advice**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

Oxidizing agents  
Acids  
Zinc

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****National occupational exposure limits****United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Water	7732-18-5	None	None	None	None
Ammonium Sulfide	12135-76-1	None	None	None	None

**Canada**

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Ammonium Sulfide	12135-76-1	None	None	None	None

**Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Water	7732-18-5	None	None
Ammonium Sulfide	12135-76-1	None	None

**Appropriate engineering controls****Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment****Personal Protective Equipment**

<b>Eye protection:</b>	Goggles and Face-shield
<b>Skin and body protection:</b>	Boots. Gloves. Chemical resistant apron. Long sleeved clothing. If working with large quantities: Chemical resistant protective suit.
<b>Respiratory protection:</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Product code:** A1250

**Product name:** AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

**5 / 13**

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Light yellow.
<b>Odor:</b> Rotten-egg like.	<b>Taste</b> No information available.	<b>Formula:</b> No information available
<b>Molecular/Formula weight:</b> No information available	<b>Flammability:</b> No information available	<b>Flash point (°C):</b> 60
<b>Flashpoint (°C/°F):</b> 60°C (140°F)	<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> No information available
<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> No information available
<b>Decomposition temperature(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available
<b>Density (g/cm3):</b> No information available	<b>Specific gravity:</b> 1.04	<b>pH:</b> No information available
<b>Vapor pressure @ 20°C (kPa):</b> No information available	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available
<b>VOC content (g/L):</b> No information available	<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Viscosity:</b> No information available	<b>Miscibility:</b> No information available	<b>Solubility:</b> Completely soluble in water

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents  
Reactive with acids  
Reacts with acids to form hydrogen sulfide

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Acids  
Zinc

**Hazardous decomposition products:** Ammonia. Hydrogen Sulfide. Ammonium bisulfite. Nitrogen oxides (NOx). Sulfur oxides.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

**Product code:** A1250

**Product name:** AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

6 / 13

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

### Acute Toxicity

#### Component Information

Water	
CAS-No.	7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat  
LD50/oral/mouse = No information available  
LD50/dermal/rabbit = No information available  
LD50/dermal/rat = No information available  
LC50/inhalation/rat = No information available  
LC50/inhalation/mouse = No information available  
Other LD50 or LC50 information = No information available

Ammonium Sulfide	
CAS-No.	12135-76-1

LD50/oral/rat = No information available  
LD50/oral/mouse = No information available  
LD50/dermal/rabbit = No information available  
LD50/dermal/rat = No information available  
LC50/inhalation/rat = No information available  
LC50/inhalation/mouse = No information available  
Other LD50 or LC50 information = No information available

#### Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

### Symptoms

Product code: A1250

Product name: AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

7 / 13

<b>Skin Contact:</b>	Corrosive. Causes skin burns. May be absorbed through the skin and cause hydrogen sulfide poisoning.
<b>Eye Contact:</b>	Corrosive. Causes redness, swelling, pain, tearing, blurred vision. Causes eye burns. Causes conjunctivitis. May cause corneal damage. May cause permanent eye damage.
<b>Inhalation</b>	Breathing Ammonium Sulfide can irritate the nose, throat and lungs causing coughing, choking, and difficulty in breathing. Very high levels can cause you to feel dizzy, lightheaded, and to pass out. This product is a sulfide. Exposure to high concentration of sulfides can result in sudden collapse, convulsion, and death from respiratory paralysis. With less severe exposure to sulfides there may be somnolence, amnesia, unconsciousness, delirium, & hallucinations, dysphagia, tachycardia, hypotension may also occur. The pupils may be non reactive and there may be strabismus, diplopia, and exophthalmos. Acute poisoning may also be followed by bronchitis, or pneumonia, bradycardia, myocarditis, cardiac dilation, peripheral neuropathy, gastrointestinal disturbances.
<b>Ingestion</b>	Causes digestive (gastrointestinal) tract irritation. May cause digestive (gastrointestinal) tract burns. Ingestion may cause nausea, vomiting. May cause cyanosis, a bluish discoloration of the skin due to deficient oxygenation of the blood. May affect respiration (respiratory depression). May affect the cardiovascular system (hypotension). May affect behavior/central nervous system (tremor, convulsions).
<b>Aspiration hazard</b>	No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Chronic Toxicity</b>	Chronic exposure to low concentrations may cause skin irritation, eye irritation, headache, insomnia, bradycardia, loss of appetite, nausea, vomiting. It may also damage the lungs, respiratory tract, eyes, lens, and cornea.
<b>Sensitization:</b>	No information available.
<b>Mutagenic Effects:</b>	No information available
<b>Carcinogenic effects:</b>	Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Ammonium Sulfide	12135-76-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**ACGIH** (American Conference of Governmental Industrial Hygienists)

**IARC** (International Agency for Research on Cancer)

**NTP** (National Toxicology Program)

**OSHA** (Occupational Safety and Health Administration of the US Department of Labor)

<b><u>Reproductive toxicity</u></b>	No data is available
<b>Reproductive Effects:</b>	No information available
<b>Developmental Effects:</b>	No information available

**Product code:** A1250

**Product name:** AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

**8 / 13**



**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Ammonium Sulfide	12135-76-1	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** UN2683

**Proper Shipping Name:** Ammonium sulfide solution

**Hazard Class:** 8

**Subsidiary Class** 6.1 3

**Packing group:** II

**Emergency Response Guide** 132

**Number**

**Marine Pollutant** No data available

**DOT RQ (lbs):** 100 lbs./45.4 kg

**Special Provisions** IB1, T7, TP2, TP13

**Symbol(s):** [DOT]: (R3) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 100 pounds (45.4 Kilograms).

**Description:** UN2683, Ammonium sulfide solution, 8 (6.1 3), II

**TDG (Canada)**

**UN-No:** UN2683

**Product code:** A1250

**Product name:** AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

**Proper Shipping Name:** Ammonium sulfide solution  
**Hazard Class:** 8  
**Subsidiary Risk:** (3), (6.1)  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN2683, Ammonium sulfide solution, 8 (3 6.1), II

#### ADR

**UN-No:** UN2683  
**Proper Shipping Name:** Ammonium sulphide solution  
**Hazard Class:** 8  
**Packing Group:** II  
**Subsidiary Risk:** 3 + 6.1  
**Description:** UN2683, Ammonium sulphide solution, 8 (3 6.1), II

#### IMO / IMDG

**UN-No:** UN2683  
**Proper Shipping Name:** Ammonium sulfide solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3, 6.1  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-E  
**Description** UN2683, Ammonium sulphide solution, 8 (3 6.1), II

#### RID

**UN-No:** UN2683  
**Proper Shipping Name:** Ammonium sulphide solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3 + 6.1  
**Packing Group:** II  
**Description:** UN2683, Ammonium sulphide solution, 8 (3 6.1), II

#### ICAO

**UN-No:** UN2683  
**Proper Shipping Name:** Ammonium sulphide solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3, 6.1  
**Packing Group:** II  
**Description:** UN2683, Ammonium sulphide solution, 8 (3 6.1), II

#### IATA

**UN-No:** UN2683  
**Proper Shipping Name:** Ammonium sulphide solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3, 6.1  
**Packing Group:** II  
**ERG Code:** 8FP  
**Special Provisions** No information available  
**Description:** UN2683, Ammonium sulphide solution, 8 (3 6.1), II

### 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
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**Product code:** A1250

**Product name:** AMMONIUM  
 SULFIDE, LIGHT SOLUTION,  
 REAGENT

**10 / 13**

Water	7732-18-5	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Ammonium Sulfide	12135-76-1	Present	Present KE-01710	Present	Present (1)-408 (1)-400	Present	Present	Present 235-223-4

## U.S. Regulations

### Ammonium Sulfide

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0115

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present

New York Release Reporting - List of Hazardous Substances:

5000 lb RQ

100 lb RQ

Louisiana Reportable Quantity List for Pollutants: 100lbfinal RQ

45.4kgfinal RQ

California Directors List of Hazardous Substances: Present

FDA - Direct Food Additives 21 CFR 172.515

FDA - 21 CFR - Total Food Additives 172.515

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Ammonium Sulfide	12135-76-1	Not Listed	Not Listed	Not Listed	Not Listed

## CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Ammonium Sulfide	12135-76-1	100 lb final RQ 45.4 kg final RQ	None	None	None	None

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Ammonium Sulfide	12135-76-1	Not Applicable	Not Applicable

## Canada

### WHMIS hazard class:

B3 Combustible liquid

D1B Toxic materials

E Corrosive material

### Components

### WHIMHAZ

Product code: A1250

Product name: AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

11 / 13

Water

Uncontrolled product according to WHMIS classification criteria

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Ammonium Sulfide	12135-76-1	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Ammonium Sulfide	12135-76-1	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Ammonium Sulfide	12135-76-1	Not listed

**EU Classification**

**R-phrases)**

R34 - Causes burns.

**S -phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Water	7732-18-5		No information	
Ammonium Sulfide	12135-76-1		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

C - Corrosive.

C



**16. OTHER INFORMATION**

Preparation Date: 12/09/2016  
Revision Date: 12/09/2016  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications.

Product code: A1250

Product name: AMMONIUM  
SULFIDE, LIGHT SOLUTION,  
REAGENT

12 / 13

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**End of Safety Data Sheet**