Potassium Thiocyanate,ACS

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

Product name : **Potassium Thiocyanate,ACS**

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: **S25506**

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
Acute toxicity (oral, dermal, inhalation), category 4

Chronic hazards to the aquatic environment, category 3
AcTox Oral 4
AcTox Inhaln 4
AcTox Dermal 4
Aq. AcTox. 3
Aq. ChrTox. 3

Signal word :Warning

Hazard statements:
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
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
Do not eat, drink or smoke when using this product
Avoid release to the environment
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Wash skin thoroughly after handling
IF ON SKIN: Wash with soap and water

Call a POISON CENTER or doctor/physician if you feel unwell
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
Dispose of contents and container as instructed in Section 13

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

Other Non-GHS Classification:

WHMIS
NFPA/HMIS

NFPA SCALE (0-4)

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 333-20-0	Potassium Thiocyanate, ACS	95 %
		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.Seek immediate medical attention or advice.Remove to fresh air. Give artificial respiration if necessary.

After skin contact: Remove contaminated clothing and wash before reuse or discard. Seek immediate medical attention or advice.Flush with water for 15 minutes.

After eye contact: Protect unexposed eye. Remove contact lens(es) if able to do so during rinsing. Flush with water for 15 minutes.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: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None identified.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyeware, gloves, and clothing. Refer to Section 8.

Additional information (precautions): Avoid dust formation.Avoid contact with skin, eyes, and clothing.Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.Ensure that air-handling systems are operational.Prevent contact with skin and eyes.

Environmental precautions:

Should not be released into environment.Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Sweep up and containerize for disposal. Avoid generating dust. Always obey local regulations.Follow proper disposal methods. Refer to Section 13.Pick up and arrange disposal without creating dust. Sweep up and shovel.Clean up spills immediately.Always obey local regulations.Avoid contact with skin and eyes, and clothing.Place into properly labeled containers for recovery or disposal. If necessary use trained response staff or contractor.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Wash hands after handling. Avoid contact with skin and eyes. Avoid generation of dust or fine particulate.Follow good hygiene procedures when handling chemical materials. Refer to Section 8.Wear protective eyeware, gloves, and clothing. Refer to Section 8.Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Store away from foodstuffs. Store in well sealed containers. Keep away from food and beverages.Store away from incompatible materials.Store in a cool location.Provide ventilation for containers.Keep product and empty container away from heat and sources of ignition.Keep container tightly sealed.

SECTION 8 : Exposure controls/personal protection

Control Parameters: 333 - 20 - 0, Potassium thiocyanate, TWA 5 mg/m3 USA. OSHA

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection: Not required under normal conditions of use.

Protection of skin: Select glove material impermeable and resistant to the substance.Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves.Wear protective clothing.

Eye protection: Safety glasses with side shields or goggles.Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

General hygienic measures: Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.Perform routine housekeeping.Before rewearing wash contaminated clothing.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Solid	**Explosion limit lower**: **Explosion limit upper**:	Non Explosive Non Explosive
Odor:	Odorless	**Vapor pressure**:	Not Applicable
Odor threshold:	Not Applicable	**Vapor density**:	Not Applicable
pH-value:	5.3 - 8.7 at 97.2 g/l at 25 °C (77 °F)	**Relative density**:	1.91 at 20 °C
Melting/Freezing point:	173°C	**Solubilities**:	
Boiling point/Boiling range:	500°C	**Partition coefficient (n-octanol/water)**:	-2.52
Flash point (closed cup):	Not Applicable	**Auto/Self-ignition temperature**:	Not Applicable
Evaporation rate:	Not Applicable	**Decomposition temperature**:	Not Applicable
Flammability (solid,gaseous):	Not Applicable	**Viscosity**:	a. Kinematic:Not Applicable b. Dynamic: Not Applicable
Density: 1.91 g/cm³ at 20 °C			

SECTION 10 : Stability and reactivity

Reactivity: Nonreactive under normal conditions.
Chemical stability: Stable under normal conditions.
Possible hazardous reactions: None identified.
Conditions to avoid: Incompatible materials.Exposure to moisture.
Incompatible materials: Strong acids, Strong bases.
Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

SECTION 11 : Toxicological information

Acute Toxicity:		
Oral:	333 - 20 - 0	LD50 oral - rat : 854mg/kg
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

Ecotoxicity: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Do not release into the environment.

333 - 20 - 0: LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96.0 h

333 - 20 - 0: EC50 - Daphnia magna (Water flea) - 11 mg/l - 48 h

Persistence and degradability: Readily biodegradable. Readily degradable in the environment.
Bioaccumulative potential: 33 - 20 - 0 Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 16 Weeks - 35,000 µg/l. 33 - 20 - 0 Bioconcentration factor (BCF) : 13.4
Mobility in soil:
Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.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

Not Regulated

UN proper shipping name

Not Regulated

Transport hazard class(es)
Packing group:Not Regulated
Environmental hazard:
Transport in bulk:
Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic

SARA Section 313 (Specific toxic chemical listings):

333-20-0 Potassium thiocyanate

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

333-20-0 Thiocyanic acid, potassium salt (1:1)

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)

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