



ISO 9001 Quality System Certified Organization
MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET

1. Identification

Product Name : Potassium thiocyanate AR

CAS No 333-20-0

Synonyms Potassium rhodanide

Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use

2. Hazard(s) identification

Classification

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

Label Elements

Signal Word

Warning

Hazard Statements

Harmful if swallowed, in contact with skin or if inhaled

Acros Organics

One Reagent Lane

Fair Lawn, NJ 07410

Acute oral toxicity Category 4

Acute dermal toxicity Category 4

Acute Inhalation Toxicity - Dusts and Mists Category 4

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

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

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

ULTRA PURE-LAB CHEM INDUSTRIES (LLP)

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Hazards not otherwise classified (HNOC)
Harmful to aquatic life with long lasting effects
Contact with acids liberates very toxic gas

3. Composition/Information on Ingredients

Component CAS No Weight %Potassium thiocyanate 333-20-0 >95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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. If not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and effects

. Metabolism may release cyanide, which may result in headache, dizziness, weakness, collapse, unconsciousness, and possible death: May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood)

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Oxidizing Properties Not oxidising

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products

Nitrogen oxides (NOx). Sulfur oxides. Potassium oxides. Protective Equipment and Precautions for Firefighters

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



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

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Avoid dust

formation. Avoid contact with skin and eyes. Keep people away from and upwind of

spill/leak. Environmental Precautions Do not flush into surface water or sanitary sewer system.

Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological

Information. Methods for Containment and Clean

Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not

get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from acids.

Incompatible Materials. Strong oxidizing agents. Acids. Strong bases.

8. Exposure controls / personal protection

Exposure Guidelines

Health

2

Flammability

1

Instability

1

Physical hazards N/A Component ACGIH TLV OSHA PEL NIOSH IDLH Mexico OEL (TWA)

Potassium thiocyanate (Vacated) TWA: 5 mg/m³

IDLH: 25 mg/m³ Legend

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

9. Physical and chemical properties

Physical State Crystalline Solid

Appearance Colorless - White

Odor Odorless

Odor Threshold No information available

pH 5.3-8.7 5% aq. solution

Melting Point/Range 170 - 179 °C / 338 - 354.2 °F

Boiling Point/Range Decomposes

Flash Point No information available

Evaporation Rate Not applicable



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Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure <1 hPa @ 20 °C

Vapor Density Not applicable

Specific Gravity 1.886

Bulk Density 750 - 1000 kg/m³ Solubility Soluble in water

Partition coefficient; n-octanol/water No data available

Autoignition Temperature No information available

Decomposition Temperature 500 °C

Viscosity Not applicable

Molecular Formula C K N S

Molecular Weight 97.18

10. Stability and reactivity

Reactive Hazard Yes

Stability Light sensitive. Moisture sensitive. Air sensitive. Conditions to Avoid Incompatible products.

Excess heat. Avoid dust formation. Exposure to light. Exposure to moist air or water. Exposure to air.

Incompatible Materials Strong oxidizing agents, Acids, Strong bases

Hazardous Decomposition Products Nitrogen oxides (NO_x), Sulfur oxides, Potassium oxides

Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions Contact with acids liberates very toxic gas.

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component LD₅₀ Oral LD₅₀ Dermal LC₅₀ Inhalation Potassium thiocyanate LD₅₀ = 854 mg/kg (Rat)

LD₅₀ > 2000 mg/kg (Rat) Not listed

Toxicologically Synergistic



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Products

No information available

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

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Component CAS No IARC NTP ACGIH OSHA Mexico Potassium thiocyanate 333-20-0 Not listed Not listed Not listed Not listed Not listed Mutagenic Effects No information available

Reproductive Effects No information available. Developmental Effects No information available.

Teratogenicity No information available. STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed

Metabolism may release cyanide, which may result in headache, dizziness, weakness, collapse, unconsciousness, and possible death: May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood)

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Component Freshwater Algae Freshwater Fish Microtox Water Flea Potassium thiocyanate Not listed

Oncorhynchus mykiss:

LC50: 11 mg/l/96h

Not listed Daphnia Magna: EC50: 2.8mg/l/96h Persistence and Degradability Soluble in water

Persistence is unlikely based on information available. Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods 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 to ensure complete and accurate classification.

14. Transport information

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated



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15. Regulatory information

United States of America Inventory

Component CAS No TSCA TSCA Inventory notification -

Active-Inactive

TSCA - EPA RegulatoryFlagsPotassium thiocyanate 333-20-0 X ACTIVE - Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL),

Australia (AICS), China (IECSC), Korea(KECL).

Component CAS No DSL NDSL EINECS PICCS ENCS ISHL AICS IECSCKECLPotassium thiocyanate 333-

20-0 X - 206-370-1 X X X X XKE-29216KECL - NIER number or KE number

(<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Component CAS No Weight % SARA 313 - ThresholdValues %Potassium thiocyanate 333-20-0 >95

1.0SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component CWA - Hazardous

Substances

CWA - Reportable

Quantities

CWA - Toxic Pollutants CWA - Priority PollutantsPotassium thiocyanate - - X XClean Air Act

Component HAPS Data Class 1 Ozone Depletors Class 2 Ozone DepletorsPotassium thiocyanate X -

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State

Right-to-Know

Regulations

Component Massachusetts New Jersey Pennsylvania Illinois Rhode IslandPotassium thiocyanate - X X

X XU.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant Y

DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals. Other International Regulations

Mexico - Grade No information available



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Authorisation/Restrictions according to EU REACH
 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Component CAS No OECD HPV Persistent Organic
 Pollutant
 Ozone Depletion
 Potential
 Restriction of
 Hazardous Substances (RoHS) Potassium thiocyanate 333-20-0 Not applicable Not applicable Not
 applicable Not applicable Component CAS No Seveso III Directive
 (2012/18/EC) -
 Qualifying Quantities
 for Major Accident
 Notification
 Seveso III Directive
 (2012/18/EC) -
 Qualifying Quantities
 for Safety Report
 Requirements
 Rotterdam
 Convention (PIC)
 Basel Convention (Hazardous Waste) Potassium thiocyanate 333-20-0 Not applicable Not applicable
 Not applicable Not applicable

16. Other information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text