


Revision: 2.0  
(Replaces revision 1.1 of 16 April 2021)Revision date: 19 April 2021  
Date printed: 16 September 2024**Section 1. Identification**

- 1.1 Product Identifier** CHE3100
- Product Name POTASSIUM THIOCYANATE pure 500g.
- CAS Number 333-20-0  
REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
- Molecular Formula  $KSCN$  =97.18
- 1.2 Relevant identified uses of the substance or mixture & uses advised against**
- Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.
- 1.3 Supplier** Scientific Laboratory Supplies
-  Unit 6, Foresters Avenue  
Fairham Business Park  
Fairham  
Nottingham  
NG11 2AF  
UNITED KINGDOM
- Phone 0115 9821111  
Fax 0115 9825275  
Email sales@scientific-labs.com
- 1.4 Emergency Telephone** (08:00-17:00) 0115 9821111  
(24hr) 112  
(Have this document to hand)

**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Acute toxicity, category 4 (oral)	H302: Harmful if swallowed.
Acute toxicity, category 4 (dermal)	H312: Harmful in contact with skin.
Acute toxicity, category 4 (inhalation)	H332: Harmful if inhaled.
Serious eye damage/irritation, category 1	H318: Causes serious eye damage.
Hazard to aquatic environment, category 3	H412: Harmful to aquatic life with long lasting effects.

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word Danger

Hazard Pictograms



Hazard Statements	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Harmful to aquatic life with long lasting effects. Causes serious eye damage.
Precautionary Statements	Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Supplemental Hazard Information (EU)	Contact with acids liberates very toxic gas.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Potassium thiocyanate	333-20-0	206-370-1		100%	Acute Tox. 4 (O), Acute Tox. 4 (D), Acute Tox. 4 (I), Eye Dam. 1, Aquatic Chronic 3

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water.
Inhalation	If material has reacted with an acid to form, hydrogen cyanide, seek immediate medical assistance.
Ingestion	Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly.
Unsuitable Media	Nothing specified.

### 5.2 Special hazards arising from the substance or mixture

Hazards	May evolve toxic fumes if involved in a fire.
---------	---

### 5.3 Advice for firefighters

Advice for firefighters	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.
-------------------------	--

## Section 6. Accidental Release Measures

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

Personal Protection Avoid breathing dust-wear respiratory protective equipment. If contact with acid is possible, use full protective clothing and breathing apparatus.

## 6.2 Environmental precautions

Environmental Presents no major environmental hazard.

## 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.  
Minor Spillage Wash area down with copious amounts of water.

## 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.  
Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

## 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

## 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

## 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits	
			Long Term (8hr TWA)	Short Term 15min period)
Potassium thiocyanate	333-20-0	100%	-	-

Exposure data source(s) No occupational exposure data currently available.

## 8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.  
Hand Protection Wear gloves.  
Eye Protection Use tightly fitting chemical splash proof glasses or goggles.  
Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.  
Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance White crystalline powder.  
Odour No specific odour.  
pH 4.8 @ 20 °C (1070 g/L)  
Boiling Point 500°C  
Melting Point 177 °C  
Flash Point Not applicable  
Upper Flammable Limit Not applicable  
Lower Flammable Limit Not applicable  
Auto Ignition Not applicable  
Explosive Properties No.  
Oxidising Properties No.

Vapour Pressure	Not applicable
Relative Density	1.9100
Water Solubility	Very soluble in water.

## 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity	No data available.
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No data available.
10.4 Conditions to Avoid	No specific conditions.
10.5 Incompatible Materials	Acids.
10.6 Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	Causes serious eye damage.
Skin	May be harmful in contact with skin. Contact with the solid or dust may be irritating to the skin.
LD50 Skin	>2000 mg/Kg Rat
Ingestion	Harmful if swallowed.
LD50 Oral	598.4 mg/Kg Rat
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## Section 12. Ecological

12.1 Toxicity	No specific environmental hazard.
LC50 Algal	Not available
LC50 Crustacea	11mg/l Daphnia magna (48 hours)
LC50 Fish	>100mg/l Rainbow trout (96 hours)
12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT & vPvB assessment	Assessment not required.
12.6 Other adverse effects	None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods	Do not dispose of as domestic waste.
------------------	--------------------------------------

Contaminated Packaging Wash out containers with water.

## Section 14. Transport Information

<b>14.1 UN Number</b>	Non-restricted
<b>14.2 Proper Shipping Name</b>	Non-restricted
<b>14.3 Transport classes</b>	
UN classification	None
Subsidiary hazard(s)	None
Transport category	None
ADR Hazard ID	Non-restricted
Tunnel Restriction Code	Non-restricted
<b>14.4 Packing Group</b>	None
<b>14.5 Environment hazards</b>	See section 12.
<b>14.6 Special precautions for user</b>	No special precautions required.
<b>14.7 Transport in bulk</b>	Not transported in bulk.

## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 1; Hazard to aquatic environment, category 3

Signal word Danger

Hazard Pictograms



Hazard Statements H302, H312, H332, H412, H318  
Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Harmful to aquatic life with long lasting effects. Causes serious eye damage.

Precautionary Statements P260, P271, P264, P270, P301+P312, P330  
Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Supplemental Hazard Information (EU) EUH032  
Contact with acids liberates very toxic gas.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 2.0 (Supercedes revision 1.1)

Revision date: 19 April 2021

Reviewed by chemist: 19 April 2021

Printed date: 16 September 2024

Copyright: 2024 Scientific Laboratory Supplies