

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **SODIUM CYANIDE**

**Recommended Use of the Chemical and Restrictions on Use** Extraction of gold and silver from ores; electroplating; heat treatment of metals; chemical intermediate.

**Supplier:** Ixom Central Pacific Ltd  
**Company Number:** 1030  
**Street Address:** Lots 3&4 Wailada Industrial Estate  
Lami  
Fiji

**Telephone Number:** +67 9 336 1144

**Facsimile:** +67 9 336 1500  
**Emergency Telephone:** **+61 3 9663 2130 (International, Australia, All Hours)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### Classification of the chemical:

Corrosive to Metals - Category 1  
Acute Dermal Toxicity - Category 1  
Acute Inhalation Toxicity - Category 2  
Acute Oral Toxicity - Category 2  
Skin Irritation - Category 2  
Eye Damage - Category 1  
Specific target organ toxicity (repeated exposure) - Category 1  
Acute Aquatic Toxicity - Category 1  
Chronic Aquatic Toxicity - Category 1

**SIGNAL WORD:** DANGER



### Hazard Statement(s):

H290 May be corrosive to metals.  
H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

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## Precautionary Statement(s):

### Prevention:

P234 Keep only in original container.  
P260 Do not breathe mist, vapours, spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash hands 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 / protective clothing / eye protection / face protection.  
P284 Wear respiratory protection.

### Response:

P310 Immediately call a POISON CENTER or doctor/physician.  
P320 Specific treatment is urgent (see First Aid Measures on this Safety Data Sheet).  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P361 Take off immediately all contaminated clothing.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before re-use.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.  
P314 Get medical advice/attention if you feel unwell.  
P390 Absorb spillage to prevent material damage.  
P391 Collect spillage.

### Storage:

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.

### Disposal:

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

### Other Hazards:

AUH029 Contact with water liberates toxic gas.  
AUH032 Contact with acids liberates very toxic gas.  
AUH070 Toxic by eye contact.

**Poisons Schedule (SUSMP):** S7 Dangerous Poison.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Sodium cyanide	143-33-9	97-99%	H290 H300 H310 H330 H315 H318 H372 H410
Non hazardous component(s)	-	to 100%	-

## 4. FIRST AID MEASURES

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For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once. Urgent hospital treatment is likely to be needed.

May be fatal if inhaled, swallowed or absorbed through skin.

At all places where there is a risk of cyanide poisoning, items to facilitate the prompt and effective treatment of cyanide poisoning (as determined by the treatment protocol to be employed) (CYANIDE EMERGENCY KIT) should be kept in an accessible and convenient location.

Recommended items include:

An oxygen resuscitator, and a source of oxygen, and a clearly marked CYANIDE ANTIDOTE box containing:

- An approved airway, elasticised tourniquet, 5 mL sterile disposable syringe and needles for blood samples, fluoride heparinised blood sample tubes, skin prep swabs, dressing and adhesive tape

- Either:

  - 2 Cyanokits containing hydroxocobalamin 5g x 2 amps, saline for use with hydroxocobalamin, and the prescribing information outlining side effects and precautions

OR

  - 2 Ampoules of Kelocyanor (Dicobalt edetate), including the prescribing information outlining side effects and precautions

- Intravenous injection equipment
- A copy of the appropriate Safety Data Sheet and
- A written copy of the relevant treatment protocol

Protect the rescuer

Prior to any attempt at rescue, an assessment of the dangers must be undertaken and measures including the use of appropriate personal protective equipment must be applied to protect the rescuer. Personal protective equipment may include:

- Protective gloves to avoid contact with contaminated skin, clothing and equipment
- Chemical goggles to protect the eyes
- Suitable respiratory protective equipment (minimum full face cannister mask) to prevent inhalation of sodium cyanide dust or hydrogen cyanide gas.

## **Inhalation:**

Shout and send for help.

Remove the person from the source of exposure and ideally to a source of fresh air.

Look for verbal and physical responses from the person suffering from poisoning. Check that they are breathing.

If Patient is Breathing: Oxygen, preferably 100% oxygen if available, should be administered by a qualified person. If the person has collapsed or is unconscious, lie on their side, ensuring airway is clear and open.

If Patient is not Breathing: Ensure airway is clear and open and commence resuscitation using a resuscitation bag or mask connected to an oxygen source (or 100% oxygen via a non rebreathing facemask). Do not use mouth-to-mouth resuscitation. Oxygen, preferably 100% oxygen if available, should be administered by a qualified person. Check for pulse. If pulse is absent start external cardiac massage.

Transport promptly to hospital or medical centre. Transport with CYANIDE EMERGENCY KIT if available.

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## **Skin Contact:**

If skin or hair contact occurs, immediately remove any contaminated clothing and place in a sealed bag for decontamination or disposal. Wash skin and hair thoroughly with running water. Contact with water can result in the formation of toxic hydrogen cyanide, take care when handling contaminated clothing. Transport promptly to hospital or medical centre. Treat as for 'Inhaled'.

## **Eye Contact:**

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre. Treat as for 'Inhaled'.

## **Ingestion:**

Do not give anything by mouth.  
Treat as for 'Inhaled'.

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## Indication of immediate medical attention and special treatment needed:

Be certain that victims have been decontaminated properly. Victims who have undergone decontamination pose no serious risks of secondary contamination to rescuers or medical staff treating the victim. In such cases, Support Zone personnel require no specialized protective gear.

Upon presentation, immediately assess the need or otherwise for assisted ventilation, administer 100% oxygen, insert intravenous lines and institute cardiac and blood pressure monitoring if available.

Assess and monitor level of consciousness.

Obtain arterial/venous blood gas as metabolic acidosis, often severe, combined with a small difference between the arterial and venous oxygen saturation levels (<10 mmHg) suggests cyanide poisoning: Correct any severe metabolic acidosis (pH below 7.20) and concurrent electrolyte imbalances (for example, hyperkalaemia, hypercalcaemia).

Take a blood sample in a fluoride heparinised tube for analysis of blood cyanide levels to confirm poisoning, but do not delay treatment while awaiting results. Treatment decisions must be made on clinical grounds.

Symptoms of fear and anxiety about possible cyanide poisoning may mimic those of mild, or the early stages, of cyanide poisoning. It is therefore important to establish cyanide poisoning has actually occurred before administering an antidote as some cyanide antidotes have severe side effects if administered in the absence of cyanide poisoning or if the dose is too great.

If a history of exposure to cyanide has been confirmed and the patient presents with, or develops, severe symptoms of cyanide poisoning (particularly if the patient has lost consciousness, is lapsing into unconsciousness or enters cardiac arrest) then antidote administration may be required.

## Antidotes

There are two main antidotes for severe cyanide poisoning

- Hydroxocobalamin (preferred) OR
- Dicobalt edetate (Kelocyanor)

### Hydroxocobalamin

Reconstitute the hydroxocobalamin by diluting one flask (5g) of the freeze-dried with 200mL of 0.9% saline and shake rigorously. Administer 5 grams of reconstituted solution via a fast intravenous drip over 15 minutes (approximately 15mL/ min). A further (5g) dose may be given if necessary at a slower rate of infusion - 30 min - 2 hours (or alternatively I.V. sodium thiosulphate 12.5g (50mL) may be given by slow intravenous injection) through a separate IV line. Hydroxocobalamin should not be administered if person has known hypersensitivity to Vitamin B12.

### Dicobalt edetate (Kelocyanor)

Note: Overzealous administration of the antidote is contraindicated and may result in serious adverse reactions of an anaphylactic (allergic) nature. The antidote should not be given unless the patient is unconscious, or has alternating conscious state. Adverse reactions reported include gross oedema of the face and neck, urticaria, palpitations, hypotension, convulsions, vomiting, chest pains, difficulty in breathing, and collapse.

Administer one ampoule containing 300mg Dicobalt edetate in 20mL glucose solution (Kelocyanor) intravenously by slow injection. The initial effect is a fall in blood pressure, rise in pulse rate, and sometimes retching. Immediately after this phase, lasting about one minute, the patient should recover. The injection should be discontinued if allergic adverse effects are noted. A second dose may be given if the response is inadequate and allergic adverse effects have not been observed (or alternatively I.V. sodium thiosulphate 12.5g (50mL) may be given by slow intravenous injection through a separate IV line.

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If cyanide has been swallowed, gastric lavage, charcoal and cathartics may be used after antidote treatment if less than two hours have elapsed since ingestion if recommended by an appropriately qualified specialist physician in a specific case although the effectiveness of this measure is not strongly supported by evidence.

Cases of proven and symptomatic cyanide poisoning should be monitored for at least 24 hours and longer if antidote administration had been required for severe poisoning. Eye splashes should be assessed by an ophthalmologist within 24 hours (as cyanide is a severe eye irritant). Persons without symptoms but with significant areas of skin contact should be observed for at least 6 hours to ensure there are no delayed effects.

## 5. FIRE FIGHTING MEASURES

### **Suitable Extinguishing Media:**

Not combustible, however, if material is involved in a fire use: Water fog (or if unavailable fine water spray). For small fires: Smother fire with dry sand, dry clay or dry limestone, or use dry chemical powder extinguisher.

### **Unsuitable Extinguishing Media:**

Water jet. Carbon dioxide. Foam. Sodium cyanide will react with carbon dioxide and many foams which contain acidic agents, releasing highly toxic and flammable hydrogen cyanide.

**Hazchem or Emergency Action Code:** 2X

### **Specific hazards arising from the chemical:**

Toxic substance. Non-combustible material, however, intense heat may cause decomposition releasing highly toxic and flammable hydrogen cyanide gas. Contact with water or acids may generate hydrogen cyanide gas. Evacuate area immediately.

### **Special protective equipment and precautions for fire-fighters:**

Decomposes on heating emitting toxic fumes, including those of hydrogen cyanide, and ammonia. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Full body protective equipment should be worn.

## 6. ACCIDENTAL RELEASE MEASURES

### **Emergency procedures/Environmental precautions:**

Clear area of all unprotected personnel. Isolate spill or leak area immediately. Shut off all possible sources of ignition. Work up wind or increase ventilation. Do not allow container or product to get into drains, sewers, streams or ponds. If contamination of sewers or waterways has occurred advise local emergency services. For large spills notify the Emergency Services.

### **Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:**

Avoid breathing in dust. Work up wind or increase ventilation. Wear protective equipment to prevent skin and eye contact and breathing in vapours/dust. DO NOT allow material to get wet. Contain - prevent run off into drains and waterways. Spillage area and contaminated solids can be detoxified by treatment with an excess of dilute sodium hypochlorite, calcium hypochlorite, or ferrous sulfate after the addition of soda ash or lime to raise the pH to greater than 10.5. Allow 1 hour for complete decomposition before washing spillage area down with large quantities of water to ensure maximum dilution. Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

This material is a Scheduled Poison S7 and must be stored, maintained and used in accordance with the relevant regulations.

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## Precautions for safe handling:

Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation. Keep out of reach of children. When using do not eat, drink or smoke. Wash hands thoroughly after handling.

## Conditions for safe storage, including any incompatibilities:

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Keep dry - reacts with water. Protect from moisture. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s) and decomposition product(s):

Cyanides (as CN): 8hr TWA = 5 mg/m<sup>3</sup>, Sk

Decomposition product(s):

Hydrogen cyanide: Peak Limitation = 11 mg/m<sup>3</sup> (10 ppm), Sk

Ammonia: 8hr TWA = 17 mg/m<sup>3</sup> (25 ppm), 15 min STEL = 24 mg/m<sup>3</sup> (35 ppm)

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

'Sk' (skin) Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Peak Limitation - a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

## Appropriate engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Avoid generating and breathing in dusts. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

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## Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, RUBBER BOOTS, AIR MASK , GLOVES (Long), APRON.

\* Not required if wearing air supplied mask.



Wear overalls, chemical goggles, full face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Immediately decontaminate clothing and protective equipment or seal in plastic bags for later decontamination or possible disposal.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Faint 'Bitter almonds' (not detectable by 100% of population)
<b>Molecular Formula:</b>	NaCN
<b>Solubility:</b>	Soluble in water.
<b>Specific Gravity:</b>	1.6-1.62 @20°C
<b>Relative Vapour Density (air=1):</b>	Not available
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	Not applicable
<b>Flammability Limits (%):</b>	Not applicable
<b>Autoignition Temperature (°C):</b>	Not applicable
<b>Solubility in water (g/L):</b>	480-520 g/L @20°C
<b>Melting Point/Range (°C):</b>	ca. 560
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Contact with acids liberates very toxic gas. Contact with water liberates toxic gas. The toxic gas produced is hydrogen cyanide, which is also flammable, and may explode.
<b>Chemical stability:</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Absorbs moisture from the air.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation will not occur. Risk of explosion if water comes into contact with molten cyanides. Corrosive to aluminium.
<b>Conditions to avoid:</b>	Avoid exposure to moisture. Avoid exposure to heat. Avoid contact with incompatible materials.
<b>Incompatible materials:</b>	Incompatible with acids , acid salts , water , moisture , carbon dioxide , oxidising agents, metals, halogens .



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**Hazardous decomposition products:** Hydrogen cyanide. Ammonia.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Highly toxic. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions and loss of consciousness. May cause cyanosis (blueness of the skin) due to lack of oxygen in the blood. May cause a weak or irregular heart beat, drop in blood pressure or cardiac arrest. Collapse and possible death may occur.

**Eye contact:** Causes serious eye damage. A severe eye irritant. Contamination of eyes can result in permanent injury.

**Skin contact:** Contact with skin will result in irritation. Toxic in contact with skin. Can be absorbed through the skin. Effects can include those described for 'INGESTION'.

**Inhalation:** Breathing in high concentrations may result in the same symptoms described for 'INGESTION'. High inhaled concentrations may lead to a feeling of suffocation and cause difficulty in breathing, headaches, dizziness and loss of consciousness. Can cause suffocation. Material is toxic - inhalation may be fatal.

**Acute toxicity:**

Oral LD50 (rat): 6440 ug/kg

Dermal LD50 (rabbit): 10400 ug/kg

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye damage.

**Respiratory or skin sensitisation:** No information available.

**Chronic effects:** Repeated or prolonged skin contact may lead to irritant contact dermatitis - 'cyanide rash' - characterised by itching and skin eruptions.

Chronic and subchronic exposure to cyanide is known to induce thyroid effects due to the cyanide metabolite, thiocyanate. Thiocyanate adversely affects the thyroid gland via competitive inhibition of iodide uptake and perturbation of the homeostatic feedback mechanisms that regulate the synthesis and secretion of essential thyroid hormones.

Other chronic effects reported include headache, eye irritation, fatigue, shortness of breath and nose bleeds.

**Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**Specific Target Organ Toxicity (STOT) - single exposure:** No information available.

**Specific Target Organ Toxicity (STOT) - repeated exposure:** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard:** Not an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways. Avoid release to the environment.

**Persistence/degradability:** Not expected to persist in soils or water.

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<b>Bioaccumulative potential:</b>	Not expected to bioconcentrate or bioaccumulate.
<b>Mobility in soil:</b>	Toxic to the soil environment.
<b>Aquatic toxicity:</b>	Very toxic to aquatic organisms. May cause long lasting harmful effects to aquatic life.
<b>Terrestrial toxicity:</b>	Toxic to bees.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations. Dispose of material through a licensed waste contractor. Residues must not be allowed to enter drains, sewers or watercourses or to contaminate the groundwater.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.



<b>UN No:</b>	1689
<b>Transport Hazard Class:</b>	6.1 Toxic
<b>Packing Group:</b>	I
<b>Proper Shipping Name or Technical Name:</b>	SODIUM CYANIDE, SOLID
<b>Hazchem or Emergency Action Code:</b>	2X

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

<b>UN No:</b>	1689
<b>Transport Hazard Class:</b>	6.1 Toxic
<b>Packing Group:</b>	I
<b>Proper Shipping Name or Technical Name:</b>	SODIUM CYANIDE, SOLID

<b>IMDG EMS Fire:</b>	F-A
<b>IMDG EMS Spill:</b>	S-A

**Marine Pollutant** Yes

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS. TRANSPORT PROHIBITED under the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air in Passenger and Cargo Aircraft; may be transported by Cargo Aircraft Only.

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**UN No:** 1689  
**Transport Hazard Class:** 6.1 Toxic  
**Packing Group:** I  
**Proper Shipping Name or Technical Name:** SODIUM CYANIDE, SOLID  
**Special precautions for user:** NOT TO BE TRANSPORTED WITH ACIDS

## 15. REGULATORY INFORMATION

### Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### Classification of the chemical:

Corrosive to Metals - Category 1  
Acute Dermal Toxicity - Category 1  
Acute Inhalation Toxicity - Category 2  
Acute Oral Toxicity - Category 2  
Skin Irritation - Category 2  
Eye Damage - Category 1  
Specific target organ toxicity (repeated exposure) - Category 1  
Acute Aquatic Toxicity - Category 1  
Chronic Aquatic Toxicity - Category 1

### Hazard Statement(s):

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H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

**Poisons Schedule (SUSMP):** S7 Dangerous Poison.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2019.

Worksafe Australia Cyanide Poisoning; National Occupational Health and Safety Commission; Australian Government Publishing Service, 1989.

US EPA Tox review of HCN and CN-salts 2010-09.

This safety data sheet has been prepared by Ixom Operations Pty Ltd (Toxicology & SDS Services).

### Reason(s) for Issue:

5 Yearly Revised Primary SDS  
Change in Fire Management Requirements

# Safety Data Sheet



This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.