

Safety Data Sheet

Infosafe No™ ACE7L Issue Date : March 2017 ISSUED by ACECHEM

Product Name **COBALT CHLORIDE HEXAHYDRATE**

Classified as hazardous

1. Identification

GHS Product Identifier COBALT CHLORIDE HEXAHYDRATE
Product Code C151778
Company Name ACE CHEMICAL COMPANY (ABN 35619819300)
Address 119A Mooringe Avenue Camden Park
S.A 5038 Australia
Telephone/Fax Number Tel: 08-8376 0844
Fax: 08-8295 8563
Emergency phone number 0438760844
E-mail Address acechem@bigpond.com

Recommended use of the chemical and restrictions on use Beer additive. Medicinal use.

Other Names	Name	Product Code
	COBALT (II) CHLORIDE	
	COBALT (II) CHLORIDE	
	COBALT (II) CHLORIDE	
	Cobaltous chloride	

Other Information Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.

2. Hazard Identification

GHS classification of the substance/mixture Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Acute Toxicity - Oral: Category 4
Sensitization - Respiratory: Category 1
Sensitization - Skin: Category 1
Germ Cell Mutagenicity: Category 2
Carcinogenicity category 1B
Toxic to Reproduction: Category 1B

Signal Word (s) DANGER

Hazard Statement (s) H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects .
H350 May cause cancer .
H360 May damage fertility or the unborn child .
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s) Exclamation mark, Health hazard, Environment



Precautionary statement – Prevention P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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Precautionary statement – Response	P264 Wash contaminated skin thoroughly after handling P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/attention. P330 Rinse mouth. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up.
Precautionary statement – Storage	
Precautionary statement – Disposal	P501 Dispose of contents/container to
Other Information	In animals, administration of cobalt salts produces polycythemia. In humans, a single case of poisoning, liver and kidney damage has been attributed to cobalt. There have also been reports of haematologic, digestive and pulmonary changes in humans. Cobalt compounds have been classified as a suspect carcinogen of the connective tissue and lungs upon review by the International Agency for Research on Cancer (IARC).

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Cobalt(Ii) Chloride	7791-13-1	

4. First-aid measures

Inhalation	Remove the source of contamination or move the victim to fresh air. Have victim blow nose to remove any dust. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation (CPR). SEEK IMMEDIATE MEDICAL ATTENTION.
Ingestion	Never give anything by mouth if victim is semi-conscious or unconscious. Immediately wash out mouth with water. If swallowed, and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup, APF. SEEK IMMEDIATE MEDICAL ATTENTION.
Skin	Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If contact is more than of minor nature, seek medical attention.
Eye contact	If in eye(s) wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.
First Aid Facilities	Safety showers, eye wash fountains, and normal wash room facilities.
Advice to Doctor	Treat symptomatically or consult a Poison Information Centre.

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5. Fire-fighting measures

Suitable extinguishing media Use foam, carbon dioxide, dry powder or water spray. Do NOT use halogenated type extinguishers as catalytic decomposition of the extinguishing medium may well occur with the production of toxic gases, including phosgene.

Specific Methods Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

Hazchem Code 2Z

6. Accidental release measures

Spills & Disposal Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise skin exposure. Dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well with soap and water. Seal all wastes in vapour tight plastic bags for eventual disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority

7. Handling and storage

Precautions for Safe Handling Avoid generating dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet

Conditions for safe storage, including any incompatibilities Store in a cool, dry, well-ventilated area, out of direct sunlight. This material is hygroscopic and best stored in moisture tight containers. Store away from incompatible materials such as materials that support combustion (oxidizing materials). Store in suitable, labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Use suitable, approved storage cabinets, tanks, rooms and buildings. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Label containers with date received, date opened and disposal date. Dispose of aged and decomposed compounds regularly. Limit quantity of material in storage. Keep storage separate from populated work areas. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area.

8. Exposure controls/personal protection

Other Exposure Information No exposure standards have been established for this material by Worksafe Australia, however, the recommended exposure limit (as Co) is: 0.1 mg / m³.

Appropriate engineering controls Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification (e.g. substitution of a less hazardous material). Administrative controls and personal protective equipment may also be required. Local exhaust ventilation or process enclosure may be necessary for processes where the material is heated or a mist created. Supply sufficient replacement air to make up for air removed by exhaust systems.

Personal Protective Equipment RESPIRATORY PROTECTION: The use of a Class P3 full facepiece respirator complying with AS/NZS 1715 and AS/NZS 1716 is recommended.
EYE PROTECTION: The use of face shields, chemical goggles, or safety glasses with side shield protection is recommended.
HAND PROTECTION: The use of Nitrile rubber gloves is recommended.

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CLOTHING: The use of plastic apron, sleeves, overalls, and rubber boots are recommended.

9. Physical and chemical properties

Appearance	Hygroscopic black crystals.
Melting Point	735°C
Boiling Point	1050°C
Solubility in Water	Not available
Specific Gravity	3.356 (water=1)
Vapour Pressure	40 mmHg @ 770°C
Flash Point	Not applicable
Flammability	Not combustible. The possibility of toxic fumes in the event of a fire should be considered.
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable
Molecular Weight	237.93

10. Stability and reactivity

11. Toxicological Information

Toxicology Information	Oral LD50(rat): 80 mg/kg
Ingestion	Toxic if swallowed. Symptoms of acute poisoning by ingestion are nausea, vomiting, and local irritation. Persons suffering from heart conditions or pernicious anaemia, would be more seriously affected by cobalt compounds. The medicinal dose of cobalt chloride is between 60-120 mg per day.
Inhalation	Toxic by inhalation of dust. Will cause irritation to the mucous membrane and upper airways. There have been reports of pulmonary changes in humans due to cobalt compounds. Cobalt compounds have been classified as a suspect carcinogen of the connective tissue and lungs upon review by the International Agency for Research on Cancer (IARC).
Skin	Will cause irritation to the skin. Locally, cobalt has been shown to produce dermatitis and certain investigators have been able to demonstrate a hypersensitivity of the skin to Co.
Eye	Will cause irritation to the eyes, which will result in redness, lachrymation and possible corneal injury.
Chronic Effects	Chronic exposure may cause hypersensitivity resulting in dermatitis or other skin problems.

12. Ecological information

13. Disposal considerations

Waste Disposal	Disposal of this material should be undertaken by a registered chemical disposal company.
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14. Transport information

Transport Information	Not classified as a Dangerous Good, according to the Australian Code, for the Transport of Dangerous Goods by Road and Rail.
U.N. Number	3077

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UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es) 9
Hazchem Code 2Z
Packing Group III
EPG Number 9C1
IERG Number 47

15. Regulatory information

Poisons Schedule Not Scheduled
Packaging & Labelling As required by the National Code of Practice for the Labelling of Workplace Substances.

16. Other Information

Literature References Sax, N. Irving, 'Dangerous Properties of Industrial Materials', Van Nostrand Reinhold (1984)
Contact Person/Point Ace Chemical Company
119A Mooringe Avenue
Camden Park S.A. 5038
Tel: 08-8376 0844 Fax: 08-8295 8563
or Poisons Information Centre
Tel: 13 11 26
Disclaimer:
Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.

Empirical Formula & Structural Formula Co Cl₂. 6 H₂O

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