Camlab Limited – Material Safety Data Sheet

1. Identification

Product Code **CC/0762-CO**

Product Name **ZINC CHLORIDE ANHYDROUS pure**

Molecular Formula **$ZnCl_2$ =136.29**

CAS Number **7646-85-7**

Supplier: **CAMLAB LIMITED**

Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE

Phone **01954 233110**
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Zinc chloride	7646-85-7	231-592-0	> 98.0%	C : R34,R50/53	N/A

3. Hazards Identification

Causes burns. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes: Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.

Skin: Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation: Remove from exposure.

Ingestion: Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards: Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media: Consider what other flammable materials are present and act accordingly.

Unsuitable Media: Nothing specified.

6. Accidental Release Measures

Personal Protection: Use approved personal protective equipment.

Enviromental: Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6. Accidental Release Measures (continued)

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.

7. Storage & Handling

Handling Precautions	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.
Storage Conditions	Well ventilated, cool, dry storage . Protect against ingress of moisture.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	White deliquescent crystalline material.
Odour	No specific odour.
pH	5 (10% solution)
Boiling point	732.0 °C
Melting point	262.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Presure	Not available
Relative Density	2.9070 °C
Water Solubility	43%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Excessive heating.
Materials to Avoid	Water, material is very deliquescent. Mixtures with powdered zinc are flammable.
Hazardous Decomposition Products	Will decompose to emit toxic and irritant fumes of hydrogen chloride.

11. Toxicological Information

Eyes	Contact with the solid or dust will be be extremely irritating to eyes and can cause chemical eye burns.
Skin	Contact with the solid or dust will cause burns. It is an irritant to the skin producing dermatitis.
LD50 Skin	Not available
Ingest	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.

11. Toxicological Information (continued)

LD50 Ingest	Not available
Inhalation	Inhalation of dust will produce severe irritation of the eyes, nose, throat and respiratory tract.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	May be a mutagen.
Reproductive Effects	None identified.

12. Ecological

Not biodegradable : highly water contaminating. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal Methods	Dispose of to a licensed land fill site.
Contaminated Packaging	Wash out containers with water. Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name	Zinc Chloride, Anhydrous
UN Number	2331
UN Classification	8 Corrosive
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	3
Marine pollutant	No
ADR Hazard ID	80

15. Regulatory Information

Labelling Classification	Corrosive.
Label Symbols	C

Risk & safety Phrases	Causes burns. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Keep locked up and out of reach of children. Keep container tightly closed and dry. After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label). This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet.
EEC Number	231-592-0

16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 15/03/06.
Data reviewed and PDF file generated: 17/03/10.