MATERIAL SAFETY DATA SHEET

Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

COMPANY	Delshine Chemicals
ABN NUMBER	21 009 447 769
ADDRESS	Unit 1 / 30 Prindiville Drive, Wangara
FACSIMILE NUMBER	(08) 9309 4334
TELEPHONE NUMBER	(08) 9309 4222
EMERGENCY TELEPHONE	041 992 7281 (After hours)
EMAIL	delshine-chemicals@bigpond.com
WEB SITE	www.delshinechemicals.com
BRAND NAME	Stabilised Chlorine Granules
TRADE NAME	Stabilised Chlorine Granules
SHIPPING NAME (section 14)	Dichloroisocyanuric Acid dry
USE	Sanitising Swimming Pool Water
RESTRICTIONS	Keep away from organic chemicals. Corrosive to most metals.

Section 2 HAZARDS CLASSIFICATION / INDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG code) for transport by road and rail.
This material is hazardous according to health criteria of NOHSC
UN NUMBER : 2465

Hazardous Category

N	Dangerous for the environment	Xi	Irritant
O	Oxidising	Xn	Harmful

Risk Phases

R8	Contact with combustible material may cause fire
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R36	Irritating to eyes and respiratory system
R50-53	Very toxic to aquatic organisms / may cause long term adverse effects in the aquatic environment.

SECTION 3 CONTIUE HAZARDS CLASSIFICATION / INDENTIFICATION

Safety Phases

S1/2	Keep locked up and out of reach of children
S8	Keep container dry
S26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
S36//37/39	Wear suitable protective clothing gloves and eye/face protection.
S41	In case of fire and or explosion do not breathe fumes
S60	This material and its container must be disposed of as hazardous waste
S62	Avoid release to the environment. Refer to special instructions MSDS

Section 3 COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Entity:	**CAS No:**	**Proportion (% mass)**
Sodium Dichloroiscocyanurate	2893-78-9	>60%
Inert Ingredients	-	balance
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		100 %

Section 4 FIRST AID MEASURES

If poisoning occurs contact a doctor or Poisons Information Centre (131 126)
Inhalation – Remove from exposure keep warm and rest. If not breathing give artificial respiration. If breathing is difficult administer oxygen. Seek immediate medical attention.
Skin Contact – Remove affected clothing including footwear and wash affected area with gentle stream of water for 15 minutes. If swelling , blistering or irritation occurs seek medical advice.
Eye Contact – Flush eye with water immediately for at least 15 minutes. Lift lower and upper eyelids occasionally. Seek medial attention.
Ingestion – Wash out mouth with water and give large quantities of water to drink. DO NOT induce vomiting . Transport to hospital immediately.
Notes to Physician – Treat symptomatically. Delayed effects from exposure to chlorine (decomposition Product) can include shortness of breath, severe headache ,pulmonary odema and pneumonia
First Aid Facilities: Ensure an eye bath and safety shower are available and ready for use.

Section 5 FIRE FIGHTING MEASURES

Specific Hazards – Non combustible but will support the combustion of other material.
Fire fighters advice – Oxidising agent. Not combustible but will support combustion of other materials. Decomposes upon heating liberating chlorine and oxygen. Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so remove containers from path of fire. Fire fighters to wear self contained breathing apparatus if risk of exposure to products of decomposition. **Suitable extinguishing media** – Water spray or fog(large quantities necessary).
Hazchem Code – 2WE

Section 6 ACCIDENTAL RELEASE MEASURES

Spills & Disposal : Immediate action is necessary . Increase ventilation. Clear area of all unprotected personnel. Wear fully protective equipment to prevent skin and eye contamination and inhalation of vapours; air supplied mask is recommended for large spills to avoid inhalation of toxic chlorine gas which is liberated when materials is exposed to water. Avoid contact with other material. **DO NOT** return spilled product to original container. **DO NOT** add small amounts of water to the product.
To neutralize add sodium sulphite (2.4kg / kg product). If no active chlorine remains , add soda ash (1.1kg / kg product) to effect complete neutralization. Where a spill has occurred in a confined space or inadequately ventilated enclosure and the material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread solid with soda ash.
Dangerous Goods – Initial Emergency Response Guide No 31

Section 7 HANDLING AND STORAGE

Handling – Avoid skin and eye contact and inhalation of dust. Ensure an eye bath and safety shower are available and ready for use. Observe good hygiene practices and recommended procedures. Wash thoroughly after handling.
Storage – Store in a cool , dry well ventilation place and out of direct sunlight. Store away from incompatible materials described in section 10. Store away from sources of heat. Keep containers closed when not in use. Check regularly for spills

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards – No exposure standards have been established for this product by the Australian Safety and Compensation Council (ASCC) formerly known as NOHSC . However an exposure standard exists for the decomposition product ; chlorine : TWA 1ppm (3mg/m3) peak limitation.
Biological Limit Value – No information available on biological limits for this product.
Engineering Controls – A system of local and or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is generally preferred because if can control the emissions of the contaminant at is source, preventing dispersion of it into the general work area.
Personal Protective Equipment- **RESPIRATOR** – Wear an approved respirator where dust vapours are generated and engineering controls are inadequate (EN149) **EYES-** chemical eye goggles and face shield (EN 166) **HANDS** – Protect PVC gloves (EN374) **CLOTHING** Corrosion resistant coveralls and safety footwear. (EN465)

Section 9 PHYSICAL & CHEMICAL PROPERTIES

Appearance & Odour	White granules with strong chlorine odour		
Melting Point / Range	240 °C		
Solubility in water	25g/L at 25° C	**Boling Point**	Not available
Specific Gravity	2.03	**Freezing Point**	Not available
Ph	Not available	**Vapour pressure**	Not available
Vapour Density	Not available		
Additional Information			

Section 10 STABILITY & REACTIVITY

Chemical Stability – Product is stable under normal conditions of use, storage and temperatures.
Conditions to Avoid – Avoid excessive heat , direct sunlight , generating dust , moisture , static discharge and high temperatures**.**
Incompatible Materials – Incompatible with most organic chemicals. Corrosive to most metals in the presence of moisture.
Hazardous Decomposition Products – Oxides of carbon and nitrogen , chlorine , smoke and other toxic fumes.
Hazardous Reactions – Contact with acids will result in the evolution of chlorine gas.

Section 11 TOXICOLOGICAL INFORMATION

Acute Effects
Inhalation – Irritation of the respiratory tract due to dust and chlorine fumes. Prolonged exposure will result in severe lung damage. Chlorine gas produces severe reactions to lung tissue. Inhalation can be fatal.
Skin Contact – Irritation and burning due to corrosive effect.
Eye Contact – Severe irritation and burns due to corrosive effect. May cause corneal burns and permanent eye damage.
Ingestion – Severe internal irritation due to corrosive effect. Swallowing can cause severe burns of the mouth, throat , and stomach. Chlorine gas may be evolved internally . Ingestion can be fatal.
Long Term Effects – N o data available
Acute Toxicity / Chlorine Toxicity – Oral LD50 (RAT) 1400 mg/kg Oral Lowest Lethal Dose (HUMAN) 3570 mg/kg

Section 12 ECOLOGICAL INFORMATION

Ecotoxicity – Not information available
Persistence & Degradability – No information available
Mobility – No information available

Section 13 DISPOSAL CONSIDERATIONS

Refer to State Territory Land Waste Management Authority.

Section 14 TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG code) for transport by road and rail.

UN No	**2465**
Dangerous Goods Class	**5.1**
Packing Group	**11**
Hazchem Code	**2WE**
Proper Shipping Name	**DICHLOROISOCYANURIC ACID DRY**

Section 15 REGULATORY INFORMATION

POISONS SHEDULE (SUSDP)

Poisons Schedule (Aust) S6

Section 16 OTHER INFORMATION

DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET :

22nd July 2008

CONTACT POINT – Les Buss – TELEPHONE (08) 9309 4222

AUTHORISATION FOR ISSUE _____ DATE _____/_____/_____

Les Buss

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