

MATERIAL SAFETY DATA SHEET

CLASSIFICATION OF MATERIAL:

Hazardous under Worksafe Australia Guidelines

COMPANY DETAILS

COMPANY	Delshine Chemicals
ABN NUMBER	21 009 447 769
ADDRESS	30 Prindiville Drive, Wangara
FACSIMILE NUMBER	(08) 9309 4334
TELEPHONE NUMBER	(08) 9309 4222
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IDENTIFICATION

Product Name: **Stabilised Chlorine Granules**

Other Names: Sodium Dichloroisocyanurate Anhydrous

UN Number:	2465	
Hazchem Code:	2PE	Packaging Group: 11
Dangerous Goods Class:	5.1	
Sub Risk:	Not applicable	
Poisons Schedule:	S5	
Use:	Sanitising water in swimming pools.	

PHYSICAL DESCRIPTION / PROPERTIES

Appearance: White crystalline powder, granules or tablets with a chlorine odour.

Boiling Point (°C): Not Available Melting Point: 230 – 250°C

Specific Gravity Kg/Lt: (20°C) 2.03

Vapour Pressure
(Pa or mm of Hg at 25°C): Not available

Flashpoint (°C): Not applicable

Physical Description/Properties cont.

Flammability Limits (%): Not applicable

Solubility in Water (g/L): Soluble

PH: 6.7 (1% aq. Soln.)

Other properties: 250 @ 25°C

INGREDIENTS

Chemical Entity:	CAS No:	Proportion (% mass)
Sodium Dichloroisocyanurate Anhydrous	2893-78-9	> 60%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Swallowed: Swallowing can result in diarrhoea, abdominal pain, ulceration of the stomach, lachrymation, difficulty in breathing and loss of consciousness.

Eye: An eye irritant. Contamination of the eyes can result in permanent injury. Corrosive to eyes; contact can cause corneal burns.

Skin: Contact with skin may result in irritation. Prolonged contact can induce chemical burn. Burns are induced when moisture is added. (1)

Inhaled: Inhalation of dust will result in respiratory irritation. Decomposes when wet to evolve chlorine gas. Inhalation of chlorine will result in severe respiratory irritation. Delayed effects can include shortness of breath, severe headache, pulmonary oedema and pneumonia.

FIRST AID

Swallowed: Immediately rinse mouth out with water. Give water to drink. Do not induce vomiting. If vomiting occurs give further water. Seek immediate medical assistance.

Eye: Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or doctor.

Skin: Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.

First Aid cont.

Inhaled: Remove victim to fresh air, avoid becoming a casualty. Remove clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek medical advice.

Advice to Doctor: Treat symptomatically. Delayed effects from exposure to chlorine (decomposition product) can include shortness of breath, severe headache, pulmonary oedema and pneumonia.

First Aid Facilities: Ensure an eye bath and safety shower are available and ready for use.

PRECAUTIONS FOR USE

Exposure Standards:

TWA

	Ppm	mg/m ³
Chlorine	1	3 peak limitation

These exposure standards are guidelines to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. 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.

Engineering Controls: Use in a well ventilated area. Avoid generating or inhaling dusts. Use with local exhaust ventilation or while wearing dust respirator or air supplied mask. Keep containers closed when not in use.

PERSONAL PROTECTION

Eye: Wear chemical goggles.

Hand: Impervious gloves.

Respirator Type: If dust exists, wear dust respirator meeting the requirements of AS 1715 and AS 1716.

Protective Clothing: Wear overalls.

SAFE HANDLING INFORMATION

- Storage & Transport:** Classified as a 5.1 (oxidising agent) dangerous substance for the purpose of transport. Refer to relevant regulations for storage and transport requirements. Not to be loaded with explosives (Class1), flammable gases (Class2.1), poison gases (Class2.3), flammable liquids (Class3), flammable solids (Class4.1), spontaneously combustible substances (Class4.2), dangerous when wet substances (Class4.3), organic peroxides (Class5.2), toxic substances (Class6.1), radioactive substances (Class7), corrosive substances (Class8), miscellaneous dangerous goods (Class9) if they are a fire risk substance, or any other fire risk substances other than dangerous goods, however exemptions may apply. This material is a schedule poison (S5) and must be stored, maintained and used in accordance with the relevant regulations.
- Store in a cool, dry place out of direct sunlight. Store in a well ventilated area. Store away from combustible materials, any easily oxidisable matter, strong acids and alkali, oxidising agents (organic peroxides) and foodstuffs. Store away from sources of heat or ignition. Keep dry reacts with water; may lead to drum rupture. Keep containers closed at all times – check regularly for spills.
- Incompatibilities:** No data
- Spills:** Immediate action necessary. Increase ventilation. Clear area of all unprotected personnel. Wear full 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 material 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 product. Collect and transfer to large volume of water – do not use metal container.
- To neutralise: add sodium sulphite (2.4 kg/kg product). If no active chlorine remains, add soda ash (1.1 kg/kg product) to effect complete neutralisation. Where a spill has occurred in a confined space or an inadequate ventilation 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.
- Disposal:** Refer to state land waste management authority. May wash to drain with large quantities of water as described in spills. Do not dispose of material at a land waste site without first advising the responsible management
- Flammability:** Non combustible, but will support the combustion of other material.

Safe Handling cont.

Fire/Explosion Hazard: Powerful oxidising agent. Not combustible, but will support combustion of other materials. Decomposes violently upon heating liberating oxygen. In case of fire area must be evacuated and specialist fire fighters called. Only large quantities of water should be used as an extinguishing agent. If excess water is not available water to prevent the spread of fire to adjacent property. Attending fire fighters should keep upwind if possible and wear full protective equipment including rubber boots and self contained breathing apparatus. A fire in the vicinity of sodium dichloroisocyanurate should be extinguished in the most practical manner but avoid contaminating this material with the fire fighting agent, including water. Decomposes on contact with water evolving toxic chlorine gas and in the presence of small amounts of water, the explosive gas nitrogen trichloride. Once fire is extinguished wash area down with excess water ensuring any traces of spilt sodium dichloroisocyanurate is also washed away. Ensure that drains are not blocked with solid material. Maintenance of excess water during cleaning up operation is essential. Combustible material involved in the incident should be removed to a safe open area for controlled burning or for further drenching with water prior to collection for disposal.

Acceptable Extinguishing Methods: Water spray or fog (large quantities are necessary).

OTHER INFORMATION

Hazard Classification

Xn Harmful
Xi Irritant

Risk Phrases

R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed
R31 Contact with acids liberates toxic gases.
R36/37 Irritating to eyes and respiratory system.

Safety Phrases

S8 Keep container dry.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S41 In case of fire and/or explosion, do not breath fumes.

Other Information cont.

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

AUTHORISATION FOR ISSUE _____ **DATE** ____/____/____
Les Buss

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