



Material Safety Data Sheet

Date prepared: 9th February 2004

Date revised: 7th January 2008

1. Identification of the Preparation and the Company

Substance or preparation trade name: **CREDENCE 1000**
Unique reference numbers(s): C1000
Company/undertaking name & address: **Kiotechagil**
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2. Composition/Information on Ingredients.

Ingredient	Weight in Product (%w/w)	EC Index No.	EC (EINECS) No.	Classification
Troclosene Sodium/1,3,5 – Triazine – 2,4,6 (1H, 3H, 5H) – trione, 1, 3 – dichloro-, sodium salt CAS No. 2893 – 78 - 9	50.00%	613-030-00-X	220-767-7	O; X _{n9} ; N R8, R22, R31, R36/37, R50/53
Adipic Acid CAS No. 000124-04-9	22.00%	607-144-0-9	201-132-3	X _i , R36

Important Note: the classification descriptions given in this section relate to the components in their pure form and do not correspond to the classification of this preparation (see section 16 for full description of R phrases).

The classification of CREDENCE as supplied is given in Section 15.

3. Hazards Identification

Most Important Hazards: Classification according to the European Directive on Classification of Hazardous Preparations 1999/45/EC (Conventional Method)

R8 Contact with combustible materials may cause fire.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R50 Very toxic to aquatic organisms.
R53 May cause long-term effects in the environment.

SHORT TERM EXPOSURE (ACUTE)

INHALATION:

Breathing dust or fumes is expected to be a primary route of exposure and may cause throat and respiratory tract irritation.

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EYES:

Irritating to eyes. Direct eye contact with the product may cause stinging, excess tearing and redness.

SKIN:

Not considered irritating to skin. Repeated skin contact may cause dermatitis and itching. Symptoms are generally alleviated when exposure ends.

INGESTION:

Ingestion of the product will irritate the mouth, oesophagus and other tissues of the digestive system. Symptoms of such over exposure may include vomiting, diarrhoea and nausea.

4. First Aid Measures.

Inhalation: Move person to fresh air. If breathing is difficult have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. Get medical attention immediately.

Skin contact: Immediately brush off excess chemical and flush with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If signs of irritation or discomfort, seek medical attention.

Eye contact: Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and tissue. Obtain medical advice.

Ingestion Never give anything by mouth to an unconscious person. If swallowed do not induce vomiting. Give large quantities of water. (If available give several glasses of milk). If vomiting occurs spontaneously keep airway clear and give more water. Get medical attention if there are signs of discomfort or ill health.

5. Fire-Fighting Measures.

Extinguishing Media

Do not attempt to extinguish the fire without a self-contained breathing apparatus. Do not let the fire burn. Flood with copious amounts of water. Do not use dry chemical extinguishers since there is potential for a violent reaction.

Fire-fighting Techniques / Comments

Fire fighters should wear full protective clothing and a self-contained breathing apparatus. Using a 10% solution of sodium carbonate, thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident.

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6. Accidental Release Measures.

Personal Protection

Avoid contact with skin and eyes. Wear chemical safety goggles and chemical resistant gloves.

Handle product in a well-ventilated area.

Environmental Protection

Do not release into the environment.

Prevent flow of material into water source and begin monitoring available chlorine and pH immediately.

Notify all downstream users of possible contamination.

Methods for Cleaning Up

Contain spilled material. Any spillage should be cleaned up as soon as possible. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean, dry containers for disposal. Do not close drums containing wet or damp material. Do not transport wet or damp material.

7. Handling and Storage.

General Handling

Do not get in eyes, on skin or on clothing.

Avoid breathing airborne particulates; wear respiratory protection when exposure is possible

Wear goggles or face shield and rubber gloves when handling.

Wash thoroughly with soap and water after handling.

Wash contaminated clothing before use.

Vapour space in a closed container may contain a slight amount of chlorine gas and compounds from decomposition of the product.

Special Mixing and Handling Instructions

Mix only with water. Use clean dry utensils. Do not mix this product with remnants of any other products. Such uses may cause a violent reaction leading to fire or explosion.

Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion.

Vapour space in a closed container may contain a slight amount of chlorine gas and other chlorine containing compounds from decomposition of the product. Exposure to chlorine gas may cause burning of the eyes, burning of the nose and mouth and irritation of the linings of the respiratory tract with coughing, a choking sensation, pain, vomiting, nausea, headache, dizziness and fainting.

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Storage

Store in original container and in a cool dry area where temperatures do not exceed 52°C.
Keep container tightly closed and store away from incompatible materials.
Do not allow water to get into the container.
Keep out of reach of children.

8. Exposure controls / personal protection.

Personal Protective Equipment: Wear chemical safety goggles and chemical resistant gloves.
Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Ventilation: Use only in well-ventilated areas.

9. Physical and Chemical Properties.

Appearance: White / off white tablet.
Odour: Slight chlorine odour
Solubility: Soluble in Water
PH: 5.5 – 6.5
Thermal Decomposition Temp: 225 – 250°C

10. Stability and Reactivity.

Stability Data: Stable
Incompatibility (Materials to avoid) Strong acids and / or alkalis. Reducing agents. Combustible material.
The active ingredient in this preparation is a strong oxidising agent. The preparation of concentrated solutions or slurries is not recommended. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidisable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis.

Hazardous Decomposition Products: Chlorine containing gases can be produced

Polymerisation - Avoid: Hazardous Polymerisation will not occur

11. Toxicological Information.

Skin and Eye Contact: Irritating to eyes.
(Note: the in-use solution is not irritating to eyes)
Not classified as irritating to the skin
Not a Potential Sensitizer
Ingestion: Rat Oral LD₅₀>2000mg/kg for the product supplied
Inhalation: Sodium Dichloroisocyanurate is irritating to the respiratory system

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12. Ecological Information.

Toxicity: This preparation is likely to be highly toxic to freshwater fish and invertebrates.

Species	Sodium Dichloroisocyanurate acid
Daphnia Magna	No Data Available
Rainbow Trout	LC50 (96 hr):0.37ppm, Highly Toxic
Bluegill Sunfish	LC50 (96 hr):0.43ppm, Highly Toxic
Mallard Duck	Oral LD50: 1916mg/Kg Slightly Toxic
Mallard Duck	8 day Dietary LC50:>10,000ppm Practically Non-toxic
Bobwhite Quail	8 day Dietary LC50:>10,000ppm Practically Non-toxic

Biodegradability: Sodium Dichloroisocyanurate will degrade rapidly in the environment through chemical activity.

13. Disposal Considerations.

Product Disposal

Do not put product, spilled product or partially filled containers into the waste compactor. Contact with incompatible materials could cause a reaction and fire. Do not transport damp or wet material. Neutralise materials to a non-oxidising state for safe disposal.

Disposal of Packaging

Clean container and dispose of according to local and national regulations.

14. Transport Information.

Non-Hazardous for Transportation

15. Regulatory Information.

EEC Directive 93/112/EEC and 2001/58/EC.

EEC Classification/Labelling 92/32/EEC.

EEC Safety Data Sheets Directive 91/155/EEC

Indication of Danger
O - Oxidising
Xi - Irritant
N – Dangerous to the Environment

Risk Phrases

R8
R31
R36/37
R50/53

Contact with combustible materials may cause fire.
Contact with acids liberates toxic gases.
Irritating to eye and respiratory system.
Very Toxic to Aquatic Organisms. May cause long-term adverse effects in the aquatic environment.

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Safety Phrases

S2	Keep 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.
S41	In case of fire or explosion, do not breathe fumes.
S61	Avoid release to the environment. Refer to special instructions/safety data sheet

16. Other Information.

The above information is intended to give general guidance as to health and safety. Whilst it is correct to the best of our knowledge and belief, no warranty can be given or implied that it will be adequate or applicable for all cases nor that the product will be suitable for any particular purpose since conditions of use are outside our control.

R phrases and Symbols used in Section 2

O Oxidising	R8 Contact with Combustible Materials may cause fire.
Xn Harmful	R22 Harmful if swallowed.
	R31 Contact with acid liberates toxic gases.
Xi Irritant	R36/37 Irritating to Eyes and Respiratory System.
N Dangerous for the Environment	R50/53 Very toxic to Aquatic Organisms. May cause long-term effects in the aquatic environment.

The inclusion of these phrases in Section 2 is mandatory according to Directive 2001/58/EC