

MATERIAL SAFETY DATA SHEET

Revision #: 03

Section 1 - Product Identification & Use

Product Name: **Stabilizer**
 Synonyms: Chlorine stablizer, I.C.A., Cyanuric acid, tricarbimide, tricyanic acid.
 WHMIS Classification: Not controlled
 TDG Classification: Not regulated
 Supplier: Advance Chemicals Ltd.
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
Isocyanuric acid	98.5	108-80-5	(oral rat) 0.89g/kg (oral, mouse) .34g/kg (dermal, rabbit)>7940mg/kg

Section 3 - Physical Data

Physical state: solid, crystalline Boiling point: no data
 Specific Gravity: 2.50 at 25°C Freezing point: no data
 pH: 3.5 - 4.3 @ 0.3g/100mL Sol in H₂O (25°C): 0.3g/100mL
 Vapour pressure: Very low at 20°C, making vapour inhalation unlikely.
 Evaporation rate: no data found
 Melting Point: 320°C(decomp)
Odour & Appearance: Odourless, hygroscopic, off-white crystalline powder or granules.

Section 4 - Fire or Explosion Hazard

Flammability: The product is not considered to be flammable.
Extinguishing media: Use water, carbon dioxide, dry chemical or alcohol foam. Wear full chemical protective clothing. Wear self contained breathing apparatus. Use an extinguishing media for surrounding the fire, or all purpose foam by manufacturer's recommended techniques for large fires. Use water to cool fire exposed containers to prevent vapour build-up and rupture.
Hazardous Combustion/Decomposition Products: Combustion produces toxic fumes.

Section 5 - Reactivity Data

Stability: Stable.
Incompatible substances: Basic solutions, oxidizers.
Polymerization: Will not occur.
Hazardous decomposition products: Combustion produces carbon dioxide. Contact with metals produces acetate solutions and hydrogen.
Conditions to avoid: Heat, open flames, basic solutions and oxidizers.

Section 6 - Toxicological Properties

Exposure Limits: TLV - 10 ppm.
Inhalation: May be destructive to mucous membranes, respiratory tract, and lungs. Dust or mist from concentrated solutions may irritate nose and throat. Symptoms include sore throat and coughing. There are no known reports of this happening to people who work with isocyanuric acid.
Skin contact: May irritate skin.
Eye contact: Dust and mist from concentrated solutions may cause some eye irritation. In swimming pools, no eye irritation has been attributed to isocyanuric acid.
Ingestion: May cause irritation of the mouth, esophagus and stomach.
Carcinogenicity: Isocyanuric acid has reportedly caused tumours in one study which has proved inconclusive.
Mutagenicity: Not mutagenetic in a short-term bacterial test.

Section 7 - Preventative Measures

Personal Protective Equipment: Avoid contact with skin and eyes. Wear chemical protective gloves, goggles and face shield, rubber apron and boots. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.
Respiratory protection: Local exhaust ventilation is required. Use an NIOSH/MSHA approved air purifying, dust, mist and particulate respirator.
Action to take for spills & leaks: Wear chemical protective clothing, rubber gloves and suitable respiratory protection. Small spills should be swept or vacuumed up and disposed of in government approved waste containers. The spill area may then be flushed with large quantities of water. Neutralize with soda ash or sodium bicarbonate then flush with water. Larger spills should be contained by diking with sand, soil or other non-combustible material, then

transferred into approved waste containers for proper disposal. Do not allow spilled, or waste product to flow into waterways. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

Note: Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

Storage & Handling Precautions: Keep container tightly closed when not in use. Store upright in a cool, dry, well ventilated place away from incompatible materials including combustible and oxidizing materials. Wash thoroughly after handling. Use with adequate ventilation.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. Keep patient warm and at rest.

In case of eye contact: Immediately flush eyes with clean water for at least twenty (20) minutes, lifting the upper and lower eyelids to ensure complete flushing action of the eyeball. Get immediate emergency medical attention. Do not transport victim until the recommended flushing period has been completed, unless eye flushing can be carried out during transport.

In case of skin contact: Immediately flush skin with plenty of clean running water for at least twenty (20) minutes. Remove contaminated clothing and shoes. If irritation persists, get emergency medical attention. Wash and launder clothes before re-use.

In case of ingestion or swallowing: If victim is conscious, give large quantities of water. Give 1 ounce of milk of magnesia in equal amount of water or the white of 3 eggs. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all inclusive, and the manner and conditions of use may involve other and additional considerations.

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