



DIVISION OF TRICORN INC.  
 P.O. BOX 796  
 SHILLINGTON, PA 19607  
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### 1. PRODUCT IDENTIFICATION

Manufacturer's Name: HYDRO DYNAMICS

Emergency Telephone: 800-255-3924

Address: 333 Trout Lane  
 PO Box 796  
 Shillington, PA 19607

Telephone: 610-777-6823

Product Name: HD-1000

Substance: Calcium Chloride Solution

Chemical Family: Inorganic Salt

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Number	Wt%	Component Name	RTECS Number
10043-52-4	20 - 45%	Calcium Chloride	EV9800000
	55 - 80%	Water	

Probable Contaminants: Calcium Carbonate, Calcium Hydroxide, Calcium Oxide, Alkali Metal Chlorides, Alkaline Earth Metal Chlorides

### 3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0-4)

Health - 1 Fire - 0 Reactivity - 0

Emergency Overview:

Odorless, clear to amber liquid. May cause skin, respiratory tract, and eye irritation.

Potential Health Effects:

Inhalation:

Mist inhalation may cause minor irritation.

Skin Contact:

May cause minor irritation.

Eye Contact:

May irritate gastrointestinal tract and cause nausea and vomiting.

Carcinogen Status:

OSHA - No NTP - No IARC - No

### 4. FIRST AID MEASURES

**Eye Contact:** Flush eyes thoroughly with water. If irritation or adverse symptoms develop, seek medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.

**Inhalation:** Remove from exposure. If breathing is difficult or irritation develops, seek medical attention.

**Ingestion:** Get medical attention.

**Notes to Physician:** Treat symptomatically and supportively.

**5. FIRE FIGHTING MEASURES**

Flash Point:	Not applicable.
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Fire Fighting:	Negligible fire hazard, not applicable.
Fire and Explosion Hazard:	Negligible.
Products of Combustion:	Non-combustible.

**6. ACCIDENTAL RELEASE MEASURES**

Evacuation and Safety:	Wear appropriate protective gear for the situation. See personal protection information in Section 8.
Containment of Spill:	For small spills, take up with sand or other absorbent material and place in containers for disposal. For larger spills, dike far ahead of spill for later disposal.
Cleanup and Disposal:	For small spills, take up with sand or other absorbent material and place in containers for disposal. For larger spills, dike far ahead of spill for later disposal.

**7. HANDLING AND STORAGE**

Handling:	Avoid skin and eye contact and breathing vapors or mists. Wash thoroughly after handling. Launder contaminated clothing before re-use.
Storage:	Observe all federal, state, and local regulations when storing this product. Store in a tightly closed container away from incompatible materials. Do not store in metals which this solution corrodes.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Controls:	Provide local exhaust ventilation system. Where there is possibility of exposure, eye wash fountain and safety shower should be provided within the immediate work area for emergency use.
Exposure Limits:	ACGIH - (TLV-TWA) guideline for nuisance particulate (liquefied mist) 10mg/m3
Eyes:	Wear safety glasses with splash shields or safety goggles/shield.
Body:	Wear appropriate normal work clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.
Respiratory:	Respirator not generally required. For misty conditions, wear NIOSH approved mist respirator.
Hands and Feet:	Wear appropriate non-leather protective gloves and boots.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Description:	Clear to amber liquid.
Odor:	Odorless
Boiling Point:	118°C (244°F) for 38% solution.
Melting Point:	Not Available.
Molecular Weight:	110.09 (for pure CaCl <sub>2</sub> )
Specific Gravity (H <sub>2</sub> O=1):	1.376 @ 25°C (77°F) for 38% solution.
pH:	3.8 - 9.0
Water Solubility:	Miscible with water in all proportions.
Solvent Solubility:	Miscible in alcohol, acetic acid and acetone.
Vapor Pressure:	Not available.
Viscosity:	Not available.

**10. STABILITY AND REACTIVITY**

Stability and Reactivity:	Stable under normal temperatures and pressures.
Incompatibilities:	Strong oxidizing agents.
Hazardous Decomposition:	None under normal conditions.
Polymerization:	Does not occur under normal temperatures and pressures.
Conditions to Avoid:	None.

**11. TOXOLOGICAL INFORMATION****Toxicity Data (anhydrous calcium chloride):**

TD <sub>L0</sub>	112g/kg, oral, 20 weeks, rat
TD <sub>L0</sub>	274 mg/kg, subcutaneous, dog
LD <sub>50</sub>	1000 mg/kg, oral, rat
LD <sub>50</sub>	264 mg/kg, intraperitoneal, rat

Mutagenic Data and Tumorigenic Data: See Registry of Toxic Effects of Chemical Substances (RTECS) file.

Carcinogen Status: None.

Local Effects: Eye, mucous membrane and skin irritant.

Health Effects: Moderately toxic by ingestion, slightly toxic by dermal absorption.

**12. ECOLOGICAL INFORMATION**

Environmental Summary: No data available.

Degradability: Product will not biodegrade or accumulate.

**13. DISPOSAL INFORMATION**

Observe all federal, state and local regulations when disposing of this substance.

**14 REGULATORY INFORMATION****Workplace Classification:**

<b>SARA Title III:</b>	Section 311: Acute Hazard.
<b>TSCA Status:</b>	Yes
<b>EINECS Status:</b>	Yes
<b>CERCLA:</b>	No
<b>OSHA Process Safety:</b>	No
<b>California Proposition 65:</b>	No ingredients found on the Proposition 65 list.
<b>WHMIS Classification:</b>	Not determined.

**14 OTHER INFORMATION**

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Hydro Dynamics reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application and disposal of this product.

**DATE:** January 2, 2011