



## MATERIAL SAFETY DATA SHEET

### 1. Identification of the Product and the Company

#### FREEZETROL 73

Zinkan Enterprises, Inc.

1919 Case Parkway North

Twinsburg, Ohio 44087

Tel: 1-800-229-6801 Fax: 1-330-425-8202

Emergency Contact : Infotrac 1-800-535-5053

### 2. Composition/ Information On Ingredients

<u>Components</u>	<u>CAS Number</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>	<u>Weight</u>
Calcium Chloride	010043-52-4			28%

### 3. Hazards Identification

*Spills will produce slippery surfaces.*

### 4. First Aid Measures

<b>Inhalation:</b>	Remove to fresh air
<b>Skin Contact:</b>	Wash off immediately with soap and water. Remove contaminated clothing
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water. In case of persistent eye irritation, consult a physician. Lift upper and lower lids.
<b>Ingestion:</b>	Give 2-4 cups of water and get medical attention.

### 5. Fire-Fighting Measures

<b>Suitable extinguishing media:</b>	Water, foam, dry powder, Carbon dioxide(CO2).
<b>Special fire-fighting precautions:</b>	Contact with Zinc metals (galvanized iron) may release explosive hydrogen gas.
<b>Protective equipment for firefighters:</b>	Self-contained breathing apparatus and protective clothing

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<b>6. Accidental Release Measures</b>	
<b>Personal precautions:</b>	No special precautions required
<b>Environmental precautions:</b>	Flush small spills with water. Do not allow material into lakes, rivers or streams
<b>Methods for cleaning up:</b>	Flush with water. Soak up with inert absorbent material. If liquid has been spilled in large quantities clean up promptly by vacuum or pump.
<b>7. Handling and Storage</b>	
<b>Handling:</b>	Avoid contact with skin and eyes. Ensure there is adequate ventilation. Do not smoke.
<b>Storage:</b>	Keep container closed when not in use. Make sure there is adequate ventilation.
<b>8. Exposure Controls/ Personal Protection</b>	
<b>Engineering controls:</b>	Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists
<b>Personal Protection Equipment</b>	
<b>Respiratory Protection:</b>	In case of insufficient ventilation wear suitable respiratory equipment
<b>Hand Protection:</b>	Neoprene rubber gloves.
<b>Eye Protection:</b>	Safety glasses with side-shields. Do not wear contact lenses.
<b>Skin Protection:</b>	Chemical resistant apron or suit if splashing of solution is likely.
<b>Hygiene Measures:</b>	Wash hands before breaks and immediately after handling product. Handle in accordance with good industrial hygiene and safety practice.
<b>9. Physical and Chemical Properties</b>	
<b>Form:</b>	Liquid
<b>Color:</b>	Clear to slightly cloudy
<b>Odor:</b>	Slight odor
<b>Specific Gravity:</b>	1.23-1.25
<b>Melting Point (°C):</b>	Not applicable.
<b>Flash Point (°C):</b>	>212° F PMCC
<b>Auto-ignition Temperature (°C):</b>	Does not ignite.
<b>Vapor Pressure (mm Hg):</b>	17.5 mm Hg.
<b>Water Solubility:</b>	Complete.

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### 10. Stability and Reactivity

<b>Stability:</b>	Product is stable, no hazardous polymerization will occur. Oxidizing agents and lime may cause exothermic reactions
<b>Hazardous Decomposition products:</b>	Thermal decomposition may produce: carbon oxides, nitrogen oxides (NOx)

### 11. Toxicological Information

#### Acute Toxicity

<b>Oral:</b>	LD50/oral/rat > 900-2,100 mg/kg
<b>Dermal:</b>	LD50/ rabbit > 5,000 mg/kg
<b>Inhalation:</b>	The product is not expected to be toxic by inhalation.

### 12. Ecological Information

<b>Chemical Fate</b>	Data for Component: <b>Calcium chloride</b>
<b>Movement &amp; Partitioning:</b>	No bioconcentration is expected because of the relatively high water solubility. Partitioning from water to n-octanol is not applicable.
<b>Persistence and Degradability:</b>	Biodegradation is not applicable.
<b>Ecotoxicity</b>	Data for Component: <b>Calcium chloride</b>
	Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 > 100 mg/L in the most sensitive species tested).
<b>Fish Acute &amp; Prolonged Toxicity:</b>	LC50, bluegill ( <i>Lepomis macrochirus</i> ): 8,350 - 10,650 mg/l
<b>Aquatic Invertebrate Acute Toxicity:</b>	LC50, water flea <i>Daphnia magna</i> : 759 - 3,005 mg/l
<b>Toxicity to Micro-organisms:</b>	EC50; activated sludge, respiration inhibition: > 1,000 mg/l

### 13. Disposal Considerations

<b>Waste From Residues/ Unused Products:</b>	Dispose in accordance with all federal, state and local regulations.
<b>Contaminated Packaging:</b>	Rinse empty containers with water and use the rinse water to prepare the working solution. Can be land-filled or incinerated, when in compliance with local regulations

### 14. Transport Information

Coal treating compound. Not regulated by DOT

NMFC: 50130.03

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### 15. Regulatory Information

#### OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

#### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

#### Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

#### Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product (when used in aqueous formulations with a chemical oxidizer such as ozone) contains a chemical known to the State of California to cause cancer

#### US. Toxic Substances Control Act

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

#### CEPA - Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

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## 15. Regulatory Information (continued)

HMIS & NFPA Ratings	HMIS	NFPA
Health:	2	2
Flammability:	0	0
Reactivity:	0	0
Personal Protection:	B	

## 16. Other Information

Person to contact: Regulatory Affairs Manager

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed to only be a guide for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.