# SAFETY DATA SHEET

# **SECTION 1 Product And Company Identification**

**PRODUCT** 

PRODUCT NAME: 3440 TIME EVAPORATION RETARDANT

PRODUCT DESCRIPTION: Preparation/Mixture

**PRODUCT USE:** For helping produce high quality concrete flatwork by minimizing the evaporation

of

moisture from the surface of newly placed concrete, extending both workability

MANUFACTURER INFORMATION

INNOVATIVE MANUFACTURING INC

861 DERWENT WAY

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(604) 522-2811

**EMERGENCY INFORMATION** 

INNOVATIVE MANUFACTURING CONTACT: 1-800-667-8246
24-HOUR EMERGENCY AND SDS HELP: CANUTEC: 613-966-6666

#### Section 2 - Hazards Identification

### Classification of the substance or mixture

#### **GHS Classification**

Skin corrosive/irritation Category 2
Serious eye damage/eye irritation Category 2A

#### Label elements

#### Hazard pictogram(s)



Signal word Warning

**Hazard Statement:** H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary Statements:** 

Prevention P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

Storage

Disposal

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable

## Unknown acute toxicity

0% of the mixture consists of ingredients(s) of unknown toxicity

#### Other hazards

Spillages may be slippery.

### Section 3 - Composition/Information on Ingredients

COMPONENTS	CAS No.	% BY WEIGHT	
Water	7732-18-5	95-99	
1-Hexadecanol	36653-82-4	1-5	

## Section 4 - First Aid Measures

#### **Description of First Aid Measures**

Eye Contact Immediately flush eyes with plenty of cool water for at least 20 minutes, occasionally lifting

the eye lids to ensure thorough rinsing. Get medical attention if irritation persists.

**Skin Contact** Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a

physician.

Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with

**Inhalation** breathing is experienced, get immediate medical attention.

Ingestion If swallowed, do not induce vomiting. Get immediate medical attention. Never give anything

by mouth to an unconscious person.

Self-protection of the first

aider

Pay attention to self-protection.

#### Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

### Indication of any immediate medical attention and special treatment needed

Immediately seek medical advice or attention if symptoms are signification or persist.

Note to physicians Treat symptomatically

## Section 5 - Fire Fighting Measures

#### **Extinguishing media**

Suitable extinguishing

media

Compatible with all standard fire fighting techniques.

Unsuitable extinguishing

media

None known.

#### Special hazards arising from the substance or mixture

**Hazardous combustion** 

products

Not applicable. Aqueous solution. Non-combustible.

Advice for firefighters None

## Section 6 - Accidental Release Measures

## Personal precautions, protective equipment, and emergency procedures

Evacuate area and keep unnecessary and unprotected personnel from entering the spill

area. Use proper personal protective equipment as listed in Section 8.

Environmental precautions Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage has

entered water course or sewer or has contaminated soil or vegetation.

#### Methods and materials for containment and cleaning up

Methods for containment Contain spills with an inert absorbent material such as soil or sands. Prevent from

spreading by covering, diking or other means. Provide ventilation.

**Methods for cleaning up** Clean up spills immediately observing precautions in the protective equipment section.

Place into a suitable container for disposal. Provide ventilation. After removal, flush spill

area with soap and water to remove trace residue.

Reference to other sections

See Section 8. Exposure controls and personal protection.

#### Section 7 - Handling and Storage

#### Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid generation of mist. Provide adequate ventilation. Emergency shower and eyes wash facilities should be readily available. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place. See also Section 8.

#### Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep at a temperature not exceeding 50°C. Do not allow material to freeze. Provide an

adequate bund wall. Unsuitable containers: aluminum. See also Section 10.

**Incompatible Products** Aluminum, zinc, tin and their alloys. Acids. Sugar residues.

Specific end use(s) Not applicable.

### Section 8 - Exposure Controls / Personal Protection

#### **Control Parameters**

**Exposure Guidelines** Country specific exposure limits have not been established or are not applicable unless

listed below.

Components	ACGIH	OSHA	NIOSH
	TLV	PEL	REL

## Exposure controls

Engineering Controls

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective

## Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear appropriate protective glasses or splash goggles as described by 20 CFR1910.133,

OSHA eye and face protection regulation, or the European standard EN 166.

Skin/Body Protection Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or

coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection Respiratory protection not normally required. Advice on respiratory protective equipment is

given in the HSE (Health and Safety Executive) publication HS(G) 53.

Other Protective Facilities storing or utilizing this material should be equipped with an eyewash facility and a

safety shower.

**Environmental Exposure** 

Controls

Avoid release to the environment.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

## Section 9 - Physical and Chemical Properties

#### Information on basic physical and chemical properties

	PRODUCT CRITERIA
PHYSICAL STATE	Liquid
APPEARANCE - COLOR	Light blue suspension
ODOR	Odourless
ODOR THRESHOLD	No data available
PH	4.5
MELTING POINT/FREEZING POINT	< 0°C
INITIAL BOILING POINT AND BOILING RANGE	> 100°C
FLASH POINT	No data available
EVAPORATION RATE	No data available
FLAMMABILITY (solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	No data available
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR=1)	No data available
SPECIFIC GRAVITY(@25°C)	1.00
SOLUBILITY	Soluble.
PARTITION COEFFICIENT: n-OCTANOL / WATER	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available
EXPLOSIVE PROTERTIES	No data available
OXIDISING PROPERTIES	No data available

Other information

**VOC** 0 g/L

## Section 10 - Stability and Reactivity

Reactivity See Possibility of Hazardous Reactions(Below)

Chemical Stability Stable under recommended storage and handling conditions.

Possibility of Hazardous Reactions When arc welding vessels containing aqueous solutions of this materials, take care to

control any explosion risk from hydrogen evolved by electrolysis. This product will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to

form carbon monoxide.

**Conditions to Avoid** See Possibility of Hazardous Reactions(above).

**Incompatible materials** See Possibility of Hazardous Reactions(above).

Hazardous Decomposition Products None known.

### Section 11 - Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat)	5000 mg/kg		1-Hexadecanol 36653-
	LC50 (Inhalation/Rat male)	-		82-4
	LD50 (Dermal/Rabbit)	2600 mg/kg		02-4
Skin corrosion/irritation	Repeated and /or prolonged	d contact may cause slight		
	skin irritation.			
Serious Eye Damage / Eye Irritation	Liquid or mist may cause di	scomfort and mild irritation.		
Respiratory or Skin Sensitization	Not classified			
Germ Cell Mutagenicity	No evidence of mutagenic	effects		
Carcinogenicity	Not classified			
Reproductive Toxicity	No evidence of reproductive	e effects		
STOT - Single Exposure	Not classified			
STOT - Repeated Exposure	Based on available data, no	ot expected		
Aspiration Hazard	Not classified			

## Section 12 - Ecological Information

**Ecotoxicity** 

The environmental impact of this product has not been fully investigated.

#### **ECOTOXICITY DATA**

Ecotoxicity		Chemical Name	
Toxicity to algae	EC50 / 96 h or 72 h	-	
	NOEC / 96 h or 72 h	-	
	M factor	-	
Toxicity to fish	LC 50 / 96 h		
	NOEC / 21 days	-	
	M factor	-	
Toxicity to Daphnia	LC50 / 48 h		
	NOEC / 21 days	-	
	M factor	-	

Persistence and Degradability

No further relevant information available.

Bioaccumulative potential Product/Ingredient Name Log Pow BCF Potential

Mobility in Soil No further relevant information available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other Adverse Effects No further relevant information available.

**Additional information** Avoid release to the environment.

### Section 13 - Disposal Considerations

#### Waste treatment methods

Waste Disposal Dispose of waste according to local, state/provincial, and federal requirements.

**Contaminated Materials** Disposal must be made in accordance with local, state and federal regulations.

Container Disposal Disposal must be made in accordance with local, state and federal regulations.

Recommended cleaning

agent

Water, if necessary with cleansing agents.

# Section 14 - Transportation Information

**DOT** Not Regulated as a hazardous material for transport

TDG Not Regulated as a hazardous material for transport

IATA Not Regulated as a hazardous material for transport

IMDG Not Regulated as a hazardous material for transport

## Section 15 - Regulatory Information

# Safety, Health and Environmental Regulations/Legislations Specific for the Chemical

#### Canada

WHMIS Classification: This document complies with the WHMIS requirements of the HPA and the CPR.

#### **US Federal Information**

SARA 302/311/312/313 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311,312 or 313.

RCRA Not classified as a hazardous substance under the Resource Conservation and Recovery

Act, or its regulations, 40 CFR.261.

CERCLA Not classified as a hazardous substance under regulations of the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA), 40 CFR.302.

**Emergency Planning and Community Right-to-Know Act (SARA Title III):** 

Not an extremely hazardous substance under Section 302 and is not a toxic chemical

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subject to the requirements of Section 313.

NTP Not classified.

OSHA Carcinogen Not listed.

State Right to Know Laws

California Prop. 65 Components

Warning: This product does not contain chemicals known to the State of California to

cause cancer and birth defects or other reproductive harm.

**Global Inventories** 

**DSL:** All components of this product are on the Canadian DSL list.

TSCA No: All constituents are listed in the TSCA inventory.

### Section 16 - Other Information

HMIS Rating: NFPA Rating:

Health1Health1Flammability0Flammability0Physical Hazard0Instability0Personal ProtectionxSpecial-

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