



**EMERGENCY PHONE: (517) 372-9121**  
ISOTHIAZOLIN, SM-15P MATERIAL SAFETY DATA SHEET

**EMERGENCY TELEPHONE NUMBERS CHEMTREC: 800/424-9300 (DAY OR NIGHT)**

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### SECTION I - PRODUCT IDENTIFICATION

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DATE: May, 2003	SUPERSEDES MSDS DATE:
TRADE NAME: SM-15P	
SYNONYMS: None	CAS REGISTRY NO. Not applicable (mixture)
MOLECULAR FORMULA: Not applicable (mixture)	MOLECULAR WEIGHT: Not applicable (mixture)

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### SECTION II - HAZARDOUS INGREDIENTS

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COMPONENT	CAS REG. NO.	%	HAZARD DATA
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.11	TWATLV not established
2-Methyl-4-isothiazolin-3-one	2682-20-4	.39	TWATLV not established

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### SECTION III - PHYSICAL CHARACTERISTICS

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APPEARANCE AND ODOR: Colorless to pale yellow liquid with mild odor  
BOILING POINT: ~100° C  
MELTING POINT: ~0° C (Freezing Point)  
SPECIFIC GRAVITY: (H<sub>2</sub>O=1): 1.02 @ 20° C  
pH : 2 – 5 (20°C)  
VAPOR PRESSURE: 27 hPa (20° C)  
EVAPORATION RATE (BUTYL ACETATE=1): < 1  
SOLUBILITY IN WATER: Fully miscible

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT: Not flammable	AUTOIGNITION TEMPERATURE: Not applicable
FLAMMABLE LIMITS: Not applicable	
FIRE EXTINGUISHING MEDIA: Water, Foam, Dry chemical, CO <sub>2</sub>	
SPECIAL FIRE FIGHTING PROCEDURES: Wear breathing apparatus and protective clothing.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to fire conditions may result in emissions of sulfur dioxide and hydrogen chloride	

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### SECTION V - REACTIVITY DATA

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STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Oxidizing and reducing agents and alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: May yield hydrogen chloride and oxides of sulfur.

DANGER OF EXPLOSION: None.

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### SECTION VI - HEALTH HAZARD DATA

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ORAL TOXICITY: Acute oral LD<sub>50</sub> (rat) ~ 5500 mg/kg

DERMAL TOXICITY: Dermal LD<sub>50</sub> (rat) > 2,000 mg/kg

SKIN IRRITATION : Persistent will defined to moderate dermal irritation

SKIN SENSITIZATION: May cause allergic skin reaction.

EYE IRRITATION : Corrosive to eyes.

INHALATION TOXICITY: LC<sub>50</sub> (mist) ~12.3 mg/L (4 hr, rat)

#### SIGNS AND SYMPTOMS OF EXPOSURE

INGESTION: May be harmful if swallowed

INHALATION: Severe irritation can be caused by breathing vapor or mist

SKIN CONTACT: May cause skin burns and allergic skin reactions.

EYE CONTACT: Corrosive to eyes.

#### HMIS

H = 3

F = 0

R = 0

NOTE: these are recommended ratings. It is the responsibility of the employer to evaluate products and train employees on the hazards of those products prior to use

#### EMERGENCY FIRST AID PROCEDURES

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment.

Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

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### SECTION VII - EXPOSURE CONTROL PROCEDURES

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RESPIRATORY PROTECTION: Wear appropriate NIOSH-approved respirator where workplace conditions warrant.

VENTILATION: Use adequate local exhaust ventilation.

EYE PROTECTION: Use OSHA approved safety goggles and full face shield.

SKIN PROTECTION: Do not get on skin or clothing. Wear coveralls and other suitable clothing to avoid skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear appropriate chemically-resistant gloves; e.g., PVC or PE.

Replace these immediately if there is any tearing or degradation of gloves. Remove and clean gloves after use.

Then wash hands and any exposed skin areas with soap and water.

WORK/HYGIENE PRACTICES: Provide eyewash fountain and emergency shower.

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### SECTION VIII - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike and absorb spills with inert material (sand, clay). Collect into corrosion-proof drums. Decontaminate area with 10% sodium bisulfite solution or a solution containing 5% Sodium Bisulfite and 5% Sodium Bicarbonate.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal and local regulations. Contact the local regional office of the EPA for pesticide disposal information.

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### SECTION IX - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

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STORE IN A VENTILATED AREA AWAY FROM CHILDREN, FOOD AND DRINKING WATER.

AVOID ANY CONTACT WITH SKIN AND EYES.

KEEP CONTAINERS TIGHTLY CLOSED.

Protect from frost.

Protect from heat and direct sunlight

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### SECTION X - SPECIAL PRECAUTIONS

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ENVIRONMENTAL HAZARDS: Product is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, ponds, estuaries, oceans or other waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

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### SECTION XI – ECOLOGICAL INFORMATION

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#### ENVIRONMENTAL TOXICITY:

Acute oral toxicity:	LD <sub>50</sub> (rat)~5500 mg/kg
Acute dermal toxicity:	LD <sub>50</sub> (rat)>2000 mg/kg
Primary skin irritation (rabbit):	Persistent well defined to moderate dermal irritation
Eye irritation (rabbit):	Corrosive to eyes
Sensitization:	May cause allergic skin reaction
Acute Inhalation:	LC <sub>50</sub> (mist)~2.85 mg/L (4 hr rat)
Aquatic toxicity:	96 hr LC <sub>50</sub> rainbow trout 1.6 mg/l 48 hr EC <sub>50</sub> Daphnia magna 0.84 mg/l

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### SECTION XII - TRANSPORTATION DATA

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#### DOT SHIPPING DESCRIPTION:

Corrosive Liquid, Acidic, Organic, N.O.S. [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8, UN 3265, PG-III

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### SECTION XIII – REGULATORY INFORMATION

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EPA REGISTRATION NO.	67071-1
TSCA Listed:	All ingredients are listed
SARA TITLE III:	Section 302 (EHS) None Section 311/312 Acute Hazard Section 313 None greater than <i>de minimus</i> level
California Proposition 65	no raw materials used in making this product are regulated
Canada DSL	All ingredients are listed

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Revisions:      May 2003                      New Format

Shared/office/msds

SM-15P (May 2003)