

Material Safety Data Sheet – Protex™ Protective Coating Agent



Risk Prevention Systems

121 Shields Park Drive
Suite F
Kernersville, NC 27284

Section 1: Product & Company Identification

Trade Name: Protex Protective Coating Agent
Product Use: Coating Additive
Manufacturer: Risk Prevention Systems
Telephone Numbers: 24 hr. Emergency Assistance: 1-888-328-6653 (Mon – Fri)
Product or Company Information: 1-888-328-6653 (Mon – Fri)

Section 2: Composition/Information on Ingredients

Ingredient	CAS #	Wt. %
Dichloro-2-n-octyl—4-isothiazolin-3-one	64359-81-5	18.0 – 20.0%
Glycols (s)	Trade Secret	15.0 – 18.0%
Metallicsalt	Trade Secret	4.0 – 6.0%

Section 3: Hazards Identification

Emergency Overview Corrosive. Causes eye/skin burns. May cause sensitization to skin. Irritating to respiratory system.

Potential Health Effects:

Skin: May cause sensitization of susceptible persons by skin contact.
Eyes: May cause permanent injury to eyes.
Inhalation: Inhalation of vapor or mist can cause irritation of nose, throat and lungs.
Ingestion: May be harmful if swallowed.
Chronic: Prolonged or repeated overexposure may cause lung effects.

Section 4: First Aid Measures

Eyes: Rinse immediately with plenty of water for at least 15 minutes.
Skin or Clothing: Immediately get under a safety shower. Remove contaminated clothing. Wash off with soap and water. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Discard articles made of leather.
Inhalation: Move to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, call a physician.
Ingestion: Drink 1 or 2 glasses of water. Immediately see a physician.
Note to Physician: Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and convulsions may be necessary.

Section 5: Fire Fighting Measures

Flash Point: Over 212°F (over 100°C) ISO 2592
Upper & Lower Flame Limits: Not determined
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Fire Fighting Equipment: Wear self-contained breathing apparatus and protective suit.
Hazards during Fire Fighting: Combustion generates toxic fumes of the following: hydrogen chloride, nitrogen oxides, sulfur oxides

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Section 6: Accidental Release Measures

Personal precautions

Wear a NIOSH approved (or equivalent) respirator (with organic vapor/acid gas cartridge and a dust/mist filter) during spill clean-ups and deactivation of this material.

MATERIAL IS CORROSIVE. Protective clothing, including chemical splash goggles, nitrile or butyl rubber full length gloves, rubber apron, or clothing made of nitrile or butyl rubber, and rubber over shoes must be worn during spill clean-ups and deactivation of this material. If material comes in contact with the skin during clean-up operations, IMMEDIATELY remove all contaminated clothing and wash exposed skin areas with soap and water. See SECTION 4, First Aid Measures, for further information.

Methods for cleaning up

WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to suitable containers for recovery or disposal. Wipe contaminated area with TEXANOL(R) (2,2,4-trimethyl-1,3-pentanediol monoisobutyrate) or butyl CARBITOL(R) (diethylene glycol monobutyl ether) using a clean rag(s) or disposable pad(s) or mop(s). Isopropanol can also be used, but special care should be taken due to the flammability of this solvent. Discard contaminated wiping materials into suitable containers for recovery or disposal. Decontaminate spill area with a freshly prepared aqueous solution of 10% sodium thiosulfate. Let stand for 30 minutes. Rinse decontamination solution to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add decontamination solution to the waste pail to deactivate the adsorbed product. See SECTION 13, Disposal Considerations, for information regarding the disposal of contained spills. TEXANOL(R) is a trademark of Eastman Chemical Co. CARBITOL(R) is a trademark of Union Carbide Co.

Section 7: Handling & Storage

Handling

This material is corrosive. For personal protection see section 8. Do not handle material near food, feed or drinking water.

Further information on storage conditions: CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all MSDS and label warnings even after container is emptied. Expiration date based only on retention of >95% actives during storage at 20°C-25°C (68°F-77°F).

Storage

Storage conditions: Keep from freezing. Keep in a well-ventilated place. Do not store this material in containers made of the following: steel Do not store this material near food, feed or drinking water.

Storage temperature: $\geq 0\text{ }^{\circ}\text{C}$ ($\geq 32\text{ }^{\circ}\text{F}$)

Storage temperature: $\leq 35\text{ }^{\circ}\text{C}$ ($\leq 95\text{ }^{\circ}\text{F}$)

Section 8: Exposure Controls/Personal Protection

Exposure limit(s): Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Dichloro-2-n-octyl-4-isothiazolin-3-one	Rohm and Haas	TWA	0.06 mg/m ³
	Rohm and Haas	STEL	0.1 mg/m ³

Component	Regulation	Type of listing	Value
Clay	ACGIH	TWA Respirable fraction.	2 mg/m ³
	OSHA_TRANS	PEL Respirable fraction.	5 mg/m ³
	OSHA_TRANS	PEL Total dust.	15 mg/m ³
	Z3	Respirable fraction.	
	Z3	Total dust.	

Component	Regulation	Type of listing	Value
Titanium dioxide	Risk Prevention System	TWA Respirable.	1.5 mg/m ³
	Risk Prevention Systems	STEL Respirable.	3 mg/m ³
	ACGIH	TWA	10 mg/m ³
	OSHA_TRANS	PEL Total dust.	15 mg/m ³
	Z3	Respirable fraction.	
	Z3	Total dust.	
	Z1A	TWA Total dust.	10 mg/m ³

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Eye protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): butyl-rubber Nitrile rubber Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. NOTE: Material is a possible skin sensitizer.

Skin and body protection: Wear as appropriate: Chemical resistant apron complete suit protecting against chemicals

Respiratory protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Up to 10 times the exposure limit: Wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Up to 1000 ppm organic vapor: Wear a properly fitted NIOSH approved (or equivalent) full-face piece, air-purifying respirator, OR full-face piece, airline respirator the pressure demand mode. Above 1000 ppm organic vapor or Unknown: Wear a properly fitted NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode, OR full-face piece, airline respirator in the pressure demand mode with emergency escape provision. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and R95 or P95 filters.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Engineering measures: Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75m/sec.) at the point of dust or mist evolution. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance.

Section 9: Physical & Chemical Properties

Appearance

Form	Flowable paste
Colour	Blue amber
Odour	Typical
pH	7.4

Boilingpoint/boiling range	100°C (212 °F) Water
Meltingpoint/range	0°C (32 °F) Water
Flashpoint	>100°C (212 °F) ISO 2592
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	17.0mmHg at 20°C (68°F) Water
Relative vapour density	<1.0 Water
Water solubility	Dilutable
Relative density	1.05 at 20 °C (68 °F)
Evaporation rate	<1 Water
Percent volatility	50- 54 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Section 10: Stability & Reactivity

Chemical Stability:	Material is stable.
Conditions to Avoid:	Keep away from heat and strong oxidizing agents.
Incompatibilities:	Strong oxidizing agents (may result in fire.), reducing agents
Hazardous Decomposition:	Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.
Hazardous Polymerization:	Will not occur.

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Section 11: Toxicological Information

No data is available for this material. The information shown is based on profiles of compositionally similar materials.

Acute oral toxicity	LD50 rat 978 mg/kg
Acute inhalation toxicity	LC50 rat 4 h 0.758 mg/l Active Ingredient
Acute dermal toxicity	LD50 rabbit >2,000 mg/kg
Skin irritation	Rabbit Corrosive
Eye irritation	Rabbit Corrosive
Sensitization	Guinea pig Causes sensitization.
Reproductive toxicity	This product is not a reproductive hazard. Active ingredient
Teratogenicity	Did not show teratogenic effects in animal experiments. Active ingredient
Mutagenicity	Non-mutagenic Active ingredient

Section 12: Ecological Information

There is no data available for this product. The Environmental Toxicity data are for a compositionally similar material.

Elimination information (persistence and degradability)

Biodegradability	Biodegradation (Aquatic metabolism) CAS # 64359-81-5 t 1/2 anaerobic = < 1hr. CAS #64359-81-5 t 1/2 aerobic = < 1hr.
Physico-chemical removability	Activated Sludge Respiration Inhibition EC50: >5700 ug/L Active Ingredient
Ecotoxicity effects	
Toxicity to fish	LC50 Oncorhynchus mykiss (rainbow trout) 96 h 0.0027mg/l Active ingredient
Toxicity to fish	LC50 Lepomis macrochirus (Bluegill sunfish) 96 h 0.014mg/l Active ingredient
Toxicity to algae	EC50 Algae (Selenastrumcapricornutum) 0.032mg/l Active ingredient
Toxicity to aquatic invertebrates	EC50 Daphnia magna 48 h 0.0052mg/l Active ingredient

Section 13: Disposal Considerations

Disposal

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations. (See 40 CFR 268)

Section 14: Transport Information

DOT	
Proper shipping name	Corrosive liquids, toxic, n.o.s. (4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one)
UN-Number	UN 2922
Class	8 (6.1)
Packing group	II
IMO/IMDG	
Proper shipping name	CORROSIVELIQUID, TOXIC, N.O.S. (4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one)
UN-Number	UN 2922
Class	8 (6.1)
Packing group	II
Marine pollutant	4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

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Section 15: Regulatory Information

Workplace Classification

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

WHMIS : This product is subject to regulation under the Canadian Pest Control Products Act (P.C.P. Act). Therefore, this product is excluded from the supplier labeling and material safety data sheet requirements as specified in Section 12 of the Hazardous Products Act.

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Acute Health Hazard Chronic Health Hazard

SARATITLE III: Section 313 Information (40CFR372)

SARA Title III Components: Metallic salt, as Copper compound

CERCLA Information (40CFR302.4)

See Section 13, Disposal Considerations, Subsection Disposal, for CERCLA classification.

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section304.

US. Toxic Substances Control Act (TSCA):All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

Section 16: Other Information

Hazard Rating

	Health	Fire	Reactivity
HMIS	3	1	0

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

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 only as guidance 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.