



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Winkler's Solution #2

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, Wisconsin 53925

Emergency Telephone Number

CHEMTREC: 1 (800) 424-9300

Telephone Number for Information

1 (920) 623-2140

Date Prepared

07-06-2007

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Rows include Sodium Hydroxide* and Potassium Iodide.

*Subject to the reporting requirements of SARA Title III Section 313.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows include Boiling Point, Vapor Pressure, Vapor Density, Specific Gravity, Melting Point, and Evaporation Rate.

Solubility in Water
Complete in all proportions

Appearance and Odor
Clear, colorless, odorless liquid.

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Values: Nonflammable, Not applicable, Not applicable.

Extinguishing Media

Suitable to extinguish the supporting flame. Water spray, dry chemical, carbon dioxide, alcohol foam.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	Absorbs carbon dioxide; avoid
	Stable	X		exposure to air.

Incompatibility Materials to Avoid

Strong acids, lithium, potassium and sodium metal, chlorinated solvents, aluminum, phosphorus, zinc, tin, tin oxides.

Hazardous Decomposition or Byproducts

Sodium, sodium oxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		None
	Will Not Occur	X	

Section VI Health Hazard Data

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

SKIN: Causes burns . EYE: Causes severe irritation and burns. INHALATION: Destructive to mucous membranes and upper respiratory tract. INGESTION: Harmful and may be fatal.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not Listed	Not Listed	Not Listed

Signs and Symptoms of Exposure.

Spasm, inflammation and swelling of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Medical Conditions Generally Aggravated by Exposure

Pre-existing medical conditions are generally aggravated by exposure.

Emergency and First Aid Procedures **INGESTION:** If swallowed, call a physician immediately, **DO NOT INDUCE VOMITING.** Give 1-2 cupfuls of water, milk or milk of magnesia. **EYES:** In case of contact, immediately flush with water, for at least 15 minutes. Call physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **SKIN:** Immediately wash skin with soap and large amounts of water.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Evacuate and ventilate area. Wear approved respirator , rubber boots and heavy rubber gloves. Stop leak if able to do so without risk. Dike spill and carefully neutralize spill with dilute hydrochloric acid. Thoroughly wash and ventilate spill area when complete.

Waste Disposal Method Dispose in accordance with all applicable Federal, state and local regulations.

Precautions to be Taken in Handling and Storing

Keep in tightly-closed, plainly-labelled containers. Store in a cool, dry, corrosion-resistant and ventilated area. Protect against physical damage. Store in corrosion resistant containers Maintain effective ventilation. Protect exposed tissues. Do not ingest or breathe vapors. Avoid storage below 0 °C (32 °F) and above 50 °C (122 °F).

Other Precautions Do not get in eyes, on clothing. Use with adequate ventilation. Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VIII Control Measures

Respiratory Protection (Specify Type) NIOSH/MSHA-approved respirator with acid organic cartridge.

Ventilation	Local Exhaust	Recommended.	Special	Eye-wash station nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Rubber gloves. **Eye Protection** Safety goggles

Other Protective Clothing or Equipment Lab coat or apron and rubber boots. Face-shield recommended.

Work /Hygienic Practices Wash exposed areas thoroughly after handling. Wash contaminated clothing before reuse.

Do **NOT** wear contact lenses. **CORROSIVE MATERIAL!** Do not wear contact lenses when handling this product.

Avoid breathing vapors. Avoid prolonged or repeated exposure.

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