



9230

020843

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

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

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KIM 623
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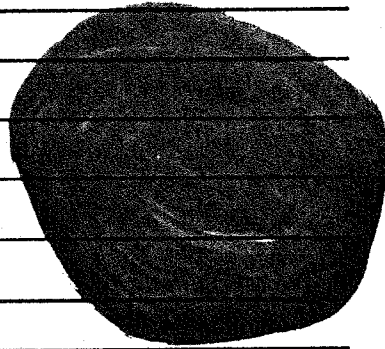
IDENTITY (As Used on Label and List)
Iodine, Lugol's Solution

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

Manufacturer's Name
Columbus Chemical Industries, Inc.
Address (Number, Street, City, State, and ZIP Code)
N4335 Temkin Road
Columbus, WI 53925

Emergency Telephone Number
(414) 623-2140
Telephone Number for Information
(414) 623-2140
Date Prepared
4/23/87
Signature of Preparer (optional)



Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
<u>Iodine</u> CAS #7553-56-2	<u>0.1ppm</u>	<u>0.1ppm</u>	<u>---</u>	<u>4%</u>
<u>Potassium Iodide</u> CAS #7681-11-0	<u>none established</u>	<u>---</u>	<u>---</u>	<u>6%</u>
<u>Water (nonhazardous)</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>90%</u>

Section III — Physical/Chemical Characteristics

Boiling Point	<u>N/A</u>	Specific Gravity (H ₂ O = 1)	<u>N/A</u>
Vapor Pressure (mm Hg.)	<u>N/A</u>	Melting Point	<u>N/A</u>
Vapor Density (AIR = 1)	<u>N/A</u>	Evaporation Rate (Butyl Acetate = 1)	<u>N/A</u>

Solubility in Water
Complete
Appearance and Odor
Reddish-brown solution

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) <u>nonflammable</u>	Flammable Limits	LEL <u>N/A</u>	UEL <u>N/A</u>
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Extinguishing Media
Suitable to extinguish the supporting flame.
Special Fire Fighting Procedures
Wear self-contained breathing apparatus. Use water for cooling containers.

Unusual Fire and Explosion Hazards
May produce toxic fumes of iodine when heated.

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Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Protect from moisture and sunlight

Incompatibility (Materials to Avoid)

Strong organic reducing agents, active metals

Hazardous Decomposition or Byproducts

Fumes of iodine, hydrogen iodide, and oxides of potassium

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	X	X	X

Health Hazards (Acute and Chronic)

Irritation to eyes and skin. Irritant to respiratory and gastrointestinal systems.

Chronic: skin rashes, irritation, nervousness, sleeplessness, rapid heart beat, muscle trembling.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	no	no	no

Signs and Symptoms of Exposure

"red eye," brown staining of eye or skin, rarely an allergic rash. Irritation of nose, throat and lungs, burning in mouth, headache, nausea, vomiting, difficult breathing, diarrhea possibly signs of shock.

Medical Conditions

Generally Aggravated by Exposure

May aggravate lung and heart diseases.

Emergency and First Aid Procedures

Inhalation: remove to fresh air and assist breathing if necessary. Eye & Skin: immediately flush with water. Ingestion: drink 2 glasses of milk or water and induce vomiting. GET MEDICAL ASSISTANCE.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Treat with sodium sulfite, bisulfite or thiosulfite, then collect in sand, vermiculite, etc. Deposit in sealed containers. Flush spill area with water. Avoid breathing vapor.

Waste Disposal Method

Dispose of sealed containers in a secured sanitary landfill approved by local authorities. Comply with all federal, state and local regulations.

Precautions to Be Taken in Handling and Storing

Keep away from heat, flames, sunlight. Use and store in cool, well ventilated area.

Other Precautions

Keep away from incompatible substances. Avoid inhaling and any contact. Do not swallow.

Section VIII — Control Measures

Respiratory Protection (Specify Type)

NIOSH approved respirator if high concentrations to maintain below TLV

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves	rubber gloves	Eye Protection	safety goggles
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Other Protective Clothing or Equipment

Impervious clothing to prevent any skin contact. Eye wash and shower available.

Work/Hygienic Practices

Wash thoroughly after handling. Normal good manufacturing or housekeeping procedures.