



J. T. Baker Chemical Co.

222 Red School Lane Phillipsburg, N.J. 08865
 24-Hour Emergency Telephone -- (201) 859-2151
 Chemtrec # (800) 424-9300
 National Response Center # (800) 424-8802

MATERIAL SAFETY DATA SHEET

I2680 -01
 Effective: 10/08/85

Iodine

Page: 1
 Issued: 10/09/85

SECTION I - PRODUCT IDENTIFICATION

Product Name: Iodine
 Formula: I
 Formula Wt: 126.90
 CAS No.: 07553-56-2
 Product Codes: 5189,2211,2212,2208,5479

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA™ System

HEALTH SEVERE	FLAMMABILITY NONE	REACTIVITY MODERATE	CONTACT SEVERE
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Laboratory Protective Equipment

 GOGGLES	 LAB COAT	 FUME HOOD	 PROPER GLOVES
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Precautionary Label Statements

POISON! DANGER!
 MAY BE FATAL IF SWALLOWED
 HARMFUL IF INHALED
 CAUSES IRRITATION

Do not get in eyes, on skin, on clothing.
 Avoid breathing dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

SECTION II - HAZARDOUS COMPONENTS

Component	%	CAS No.
Iodine	90-100	7553-56-2

SECTION III - PHYSICAL DATA

Boiling Point: 185°C (365°F) Vapor Pressure(mmHg): .3
 Melting Point: 114°C (237°F) Vapor Density(air=1): 8.7



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SECTION III - PHYSICAL DATA (Continued)

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Specific Gravity: 4.93
(H₂O=1)

Evaporation Rate: N/A
(Butyl Acetate=1)

Solubility(H₂O): Negligible (less than 0.1 %) % Volatiles by Volume: 100

Appearance & Odor: Violet black crystals, metallic luster, characteristic odor.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point: N/A

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

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SECTION V - HEALTH HAZARD DATA

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Threshold Limit Value (TLV/TWA): 01.0 mg/m³ (0.1 ppm)

Toxicity: LD₅₀ (oral-rat)(g/kg) - 14
LD₅₀ (oral-mouse)(g/kg) - 22

Effects of Overexposure

Vapors may be irritating to skin, eyes, nose and throat.
Inhalation of vapors may cause severe irritation of the respiratory system.
Contact with skin or eyes may cause severe irritation or burns.

Emergency and First Aid Procedures

If swallowed, if conscious, give milk or starch paste. Then induce
If inhaled, remove to fresh air. If not breathing, give artificial
respiration. If breathing is difficult, give oxygen.
In case of contact, immediately flush eyes or skin with plenty of water for
at least 15 minutes.

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SECTION VI - REACTIVITY DATA

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Stability: Stable Hazardous Polymerization: Will not occur

Conditions to Avoid: light

Incompatibles: strong reducing agents, alkali metals, ammonia



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SECTION VII - SPILL AND DISPOSAL PROCEDURES

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Steps to be taken in the event of a spill or discharge

Wear self-contained breathing apparatus and full protective clothing.
With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: D002, D003 (Corrosive, Reactive Waste)

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

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Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: None required where appropriate ventilation conditions exist. If the TLV is exceeded, a self-contained breathing apparatus is advised.

Eye/Skin Protection: Safety goggles, uniform, apron, rubber gloves are recommended.

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS

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SAF-T-DATATM Storage Color Code: White

Special Precautions

Keep container tightly closed. Store in corrosion-proof area.
Keep containers out of sun and away from heat.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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DOMESTIC (D.O.T.)

Proper Shipping Name Chemicals, n.o.s.

INTERNATIONAL (I.M.O.)

Proper Shipping Name Chemicals, n.o.s.

N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.