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Technical Data Sheet

IODINE

1. Chemical Product Identification

GHS Product Identifier: 100.04, Iodine, Crude; 100.15, Iodine, USP; 100.24, Iodine, ACS; 100.34, Iodine, HP

Formula: I₂

CAS No.: 7553-56-2

Formula Description: Heavy, purplish-black flakes or prills with metallic luster.

Recommended Use: Elemental Iodine is used for the manufacturing of inorganic and organic derivatives; used as a disinfectant and anti-bacterial agent in solutions, tinctures and salves; used in x-ray contrast media. Not permitted in the manufacturing of clandestine chemicals.

General Properties:

Molecular Weight: 253.8

Density (25°C): 4.93

Melting Point: 113.5°C

Boiling Point: 184.4°



2. Chemical Product Specifications

Chemical Identity	Assay	Nonvolatile Residue	Chloride & Bromide
Iodine Crude	99.5% minimum	0.05% maximum	0.05% maximum

Chemical Identity	Assay	Nonvolatile Residue	Chloride & Bromide
Iodine USP	99.8% - 100.5%	0.05% maximum	0.028% maximum
	Identification A	Identification B	
	Passes Test	Passes Test	Conforms to the current USP monograph

Chemical Identity	Assay	Nonvolatile Residue	Chloride & Bromide (as cl)	
Iodine ACS	99.8% minimum	0.01% maximum	0.005% maximum	Conforms to current ACS Edition

Chemical Identity	Purity (by difference)	Nonvolatile Residue	Chloride & Bromide (as cl)
Iodine High Purity	99.99% minimum	0.005% maximum	0.005% maximum

3. Standard Packaging

Net Weight	Packaging
12.5 lbs.	1.0 gal 1H2/X12/S NL/Curtec
25 kgs.	4.0 gal 1H2/X30/S PP
50 kgs.	8.5 gal 1G/Y55/S Fiberboard
Material packaged with Saran inner liner and polyethylene outer liner; suitable for export. Curtec drum does not include liner.	

4. Transport Information

SHIPPING CRITERIA	US DOT	IATA and IMDG
Proper Shipping Name	Iodine	Iodine
Hazard Class	Class 8, 6.1	Class 8, 6.1
Identification Number	UN 3495	UN 3495
Packing Group	PG III	PG III
Shipping Label	Corrosive, Toxic	Corrosive, Toxic
Additional Marking Requirement	Consult the 49 CFR §172 for special provisions and markings	Consult the current DGR Regulations , Section 7

5. Handling and Storage

Storage Conditions: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed and away from sources of heat or ignition. It is recommended to use a double-liner system using a PTFE and PE liner. Containers of this material may be hazardous when empty since they contain product residue.

SDS with detailed information available upon request.

6. Regulatory Information

The purchasing and exportation of List 1 Chemicals and Iodine Solutions requires the submission of documents for the verification to the validity of the sale and the intended end-use. The regulation can be found in 21 CFR, Food and Drugs, parts 1300-1313 under the jurisdiction of U.S. DOJ, Drug Enforcement Administration.