



Date Prepared: 07/31/2007

Reviewed On: 07/31/2007

1 Identification of substance:

- Product name: ~~Gram Iodine~~
- Catalog number: 212542
- Manufacturer/Supplier:
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-0100 or (800) 638-8663
- Information department: Technical services
- Emergency information:
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Diagnostic Systems at (410)771-0100 or (800) 638-8663, or ChemTrec at (800) 424-9300.

2 Composition/Data on components:

- Chemical characterization
- Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:		
25655-41-8	Polyvinylpyrrolidone-Iodine	10.0%
7681-11-0	potassium iodide	1.9%

3 Hazards identification

- Hazard description:



Xn Harmful

- Information pertaining to particular dangers for man and environment
R 21 Harmful in contact with skin.
R 36/37/38 Irritating to eyes, respiratory system and skin.
- Classification system
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0-4)



Health = 2
Fire = 0
Reactivity = 0

4 First aid measures

- General information
Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.
- After inhalation Seek medical treatment in case of complaints.
- After skin contact Immediately wash with water and soap and rinse thoroughly.

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- *After eye contact Rinse opened eye for 15 minutes under running water. Then consult a doctor.*
- *After swallowing Call a doctor immediately.*
- *Information for doctor Show this product label or this MSDS.*

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** *No special measures required.*

6 Accidental release measures

- **Person-related safety precautions:** *Not required.*
- **Measures for environmental protection:** *Wipe up with damp sponge or mop.*
- **Measures for cleaning/collecting:** *No special measures required.*
- **Additional information:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Information for safe handling:** *Ensure good ventilation/exhaustion at the workplace.*
- **Information about protection against explosions and fires:** *No special measures required.*
- **Storage**
- **Requirements to be met by storerooms and receptacles:** *15 - 30 C*
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:** *Store in cool, dry conditions in well sealed containers.*

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **Personal Protective Equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

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Protection of hands:



Chemical resistant gloves (i.e. nitrile, or equivalent).

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties:

General Information

Form:	Liquid
Color:	Dark brown
Odor:	Characteristic
Change in condition	Undetermined
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Flash point:	Not applicable
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined
Solubility in / Miscibility with Water:	Soluble
pH-value:	2.0
Solvent content:	
Organic solvents:	0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
Incompatible materials: strong acids and oxidizers.
Incompatable materials: bromine, triflouride, and trichloride.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known.



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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7681-11-0 potassium iodide

Oral	LD50	1862 mg/kg (rat)
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25655-41-8 Polyvinylpyrrolidone-Iodine

Oral	LD50	8100 mg/kg (mou)
		> 8000 mg/kg (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Subacute to chronic toxicity:** Target organs: central nervous system, endocrine system.

· **Additional toxicological information:**

Irritant

The product shows the following dangers according to internally approved calculation methods for preparations:

12 Ecological information:

· **Ecotoxicological effects:**

· **Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

This product is not considered a RCRA hazardous waste.

· **Uncleaned packagings:**

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **DOT regulations:**

· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

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- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

15 Regulations

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

25655-41-8	Polyvinylpyrrolidone-Iodine
7681-11-0	potassium iodide

· **California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **Product related hazard information:**

Observe the general safety regulations when handling chemicals
The product has been classified and marked in accordance with regulations on hazardous materials.

· **Hazard symbols:**

Xn Harmful

· **Hazard-determining components of labeling:**

Polyvinylpyrrolidone-Iodine
potassium iodide

· **Risk phrases:**

21 Harmful in contact with skin.
36/37/38 Irritating to eyes, respiratory system and skin.

· **Safety phrases:**

7 Keep container tightly closed.
23 Do not breathe gas/fumes/vapour/spray.

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24/25 Avoid contact with skin and eyes.
36 Wear suitable protective clothing.

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16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

- **Department issuing MSDS:**
Safety and Environment Department
MSDS created by Michael J. Spinazzola
- **Contact:** Technical Service Representative

USA