


# Safety Data Sheet

Section 1. Identification	
<b>Product Identification and Item Numbers:</b>	Iodine Solution, Gram Stain #2 (IODINE/1, IODINE/2)
<b>Product Description:</b>	Gram Stain Iodine Solution
<b>Recommended use and restrictions on use:</b>	N/A
<b>Supplier:</b>	Delasco 608 13 <sup>th</sup> Avenue Council Bluffs, IA 51501 1-712-323-3269 <a href="http://www.delasco.com">www.delasco.com</a> <a href="mailto:questions@delasco.com">questions@delasco.com</a>
<b>In Case of Emergency, Contact:</b>	Chemtrec (24 hour) 1-800-424-9300

Section 2. Hazard(s) Identification	
<b>Classification:</b>	
Skin irritant (Category 2) Eye irritant (Category 2A)	
<b>Labeling:</b>	
<b>Hazard symbol(s):</b>	 GHS07: health hazard
<b>Signal word:</b>	<b>Danger!</b>
<b>Hazard statements:</b>	
H315: Causes skin irritation H319: Causes serious eye irritation	
<b>Precautionary statements:</b>	
Wear protective gloves. Wear eye protection / face protection. Wash thoroughly after handling. If in eyes: Wash cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: get medical attention/advice. If eye irritation persists: get medical attention/advice. If on skin: wash with plenty of water. Take off contaminated clothing and wash it before reuse.	

Section 3. Composition/Information on Ingredients	
<b>Chemical Name and Concentration:</b>	Water 90-99% Potassium Iodide 0.5 - 5% Iodine 0.5 - 5%
<b>Other Names, Common Names, Synonyms:</b>	N/A
<b>CAS Number, other unique identifiers:</b>	Mixture: Water CAS# 7732-18-5 Potassium Iodide CAS# 7681-11-0 Iodine CAS# 7553-56-2
<b>Other classified impurities or stabilizers:</b>	N/A
<b>Other ingredients posing health hazards:</b>	N/A
<b>Concentration of other hazardous ingredients:</b>	N/A

<b>Section 4. First-aid Measures</b>	
<b>Inhalation exposure:</b>	Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. If unconscious, place patient on side for transportation.
<b>Skin exposure:</b>	Wash off with soap and plenty of water immediately. If skin irritation persists, seek medical attention.
<b>Eye contact:</b>	Rinse open eyes for 15 minutes with running water. If symptoms persist, seek medical attention.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Drink copious amount of water. If symptoms persist, seek medical attention.

<b>Section 5. Fire Fighting Measures</b>											
<b>Suitable / unsuitable extinguishing media:</b>	Use water spray, dry chemical/powder, or carbon dioxide.										
<b>Specific hazards / combustion products:</b>	Not available.										
<b>Special protective equipment and precautions for fire-fighters:</b>	Wear self-contained breathing apparatus for firefighting if necessary. Wear full protective gear to prevent contact with skin and eyes.										
<b>NFPA Hazard Classification</b>	<table> <tr> <td>Health – 1</td> <td>0-Minimal</td> </tr> <tr> <td>Flammability – 0</td> <td>1-Slight</td> </tr> <tr> <td>Instability – 0</td> <td>2-Moderate</td> </tr> <tr> <td></td> <td>3-Serious</td> </tr> <tr> <td></td> <td>4-Severe</td> </tr> </table>	Health – 1	0-Minimal	Flammability – 0	1-Slight	Instability – 0	2-Moderate		3-Serious		4-Severe
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	3-Serious										
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<b>Section 6. Accidental Release Measures</b>	
<b>Personal precautions and protective equipment:</b>	Avoid contact with skin, eyes, and clothing. Keep people at a distance. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
<b>Environmental Precautions:</b>	Dilute with plenty of water. Do not allow to enter sewers, surface water, or ground water.
<b>Containment / clean up methods:</b>	Soak up with inert absorbent material and dispose of according to local regulations. Ensure adequate ventilation.

<b>Section 7. Handling and Storage</b>	
<b>Precautions for safe handling:</b>	Keep away from heat and direct sunlight. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Prevent formation of aerosols.
<b>Conditions for safe storage:</b>	Keep container tightly closed.
<b>Incompatibilities to avoid:</b>	Avoid contact with rubber, plastics, iron, iron salts, sulphur compounds, ammonia, magnesium, zinc, aluminum, metals, alkalis, antimony salts, arsenites, halogens, ferrous salts, strong oxidizing agents, strong acids, strong reducing agents, nickel and its alloys, steel, alkali metals, brass, cadmium, and copper.

<b>Section 8. Exposure Controls and Personal Protection</b>	
<b>OSHA Permissible Exposure Limit (PEL):</b>	Iodine: Ceiling limit value: 1 mg/m <sup>3</sup> , 0.1 ppm
<b>Threshold Limit Value (TLV):</b>	Potassium Iodide: Long term value: 0.01 ppm (as inhalable fraction and vapor)  Iodine: Short term value: 1 mg/m <sup>3</sup> , 0.1 ppm (vapor) Long term value: 0.1 mg/m <sup>3</sup> , 0.01 ppm
<b>Other exposure limits:</b>	Not available.
<b>Engineering controls:</b>	Handle under good industrial safety practices. Wash hands when done working with this product. Use mechanical ventilation for storage areas.
<b>Personal protective equipment:</b>	<b>Respiratory Protection:</b> Use in a well-ventilated area. Use respirator if concentration is above acceptable limits. <b>Eye Protection:</b> Tightly sealed goggles. <b>Skin Protection:</b> Impermeable gloves. Protective work clothing.
<b>Other personal protection measures:</b>	The usual precautions for handling chemicals should be observed. Keep away from food and beverage. Remove all soiled clothing and wash before reuse. Wash hands after use. Avoid contact with skin and eyes.

<b>Section 9. Physical and Chemical Properties</b>	
<b>Appearance (physical state, color, etc.):</b>	Liquid. Dark.
<b>Odor:</b>	Odorless.
<b>Odor threshold:</b>	Data not available.
<b>pH:</b>	Data not available.
<b>Melting point / freezing point:</b>	Data not available.
<b>Initial boiling point and boiling range:</b>	Data not available.
<b>Flash point:</b>	Data not available.
<b>Evaporation rate:</b>	Data not available.
<b>Flammability</b>	Data not available.
<b>Upper / lower flammability or explosive limits:</b>	Data not available.
<b>Vapor Pressure:</b>	Data not available.
<b>Vapor density:</b>	Data not available.
<b>Relative density:</b>	Data not available.
<b>Solubility:</b>	Data not available.
<b>Partition coefficient: n-octanol/water:</b>	Data not available.
<b>Auto-ignition temperature:</b>	Data not available.
<b>Decomposition temperature:</b>	Data not available.
<b>Viscosity:</b>	Data not available.

<b>Section 10. Stability and Reactivity</b>	
<b>Chemical stability:</b>	The product is stable.
<b>Possibility of hazardous reactions:</b>	Not available.
<b>Conditions to avoid (static, shock, vibration...)</b>	Not available.
<b>Incompatible materials:</b>	Avoid contact with rubber, plastics, iron, iron salts, sulphur compounds, ammonia, magnesium, zinc, aluminum, metals, alkalis, antimony salts, arsenites, halogens, ferrous salts, strong oxidizing agents, strong acids, strong reducing agents, nickel and its alloys, steel, alkali metals, brass, cadmium, and copper.
<b>Hazardous decomposition products:</b>	Not available.

<b>Section 11. Toxicological Information</b>	
Routes of exposure:	Not available.
Acute Symptoms (acute):	Skin – Irritant to skin and mucous membranes Eye – Irritating effect. Causes serious eye irritation.
Symptoms (chronic): Chronic effects from short and long term exposure:	Not available
Numerical measures of toxicity (e.g., acute toxicity estimates): (NIOSH)	<b>Acute Toxicity – Potassium Iodide</b> LD50 Oral - 1000 mg/kg (mouse)  <b>Acute Toxicity – Potassium Iodide</b> LD50 Oral - 14000 mg/kg (rat)
NTP carcinogen:	<b>None of the ingredients are listed as a carcinogen.</b>
EPA carcinogen:	Not available
ACGIH carcinogen:	Not available
IARC potential carcinogen:	Not available
OSHA carcinogen:	Not available

<b>Section 12. Ecological Information (Non-mandatory)</b>	
Ecotoxicity (aquatic and terrestrial, where available):	<u>Potassium Iodide:</u> EC50 – 2.7 mg/ml (water flea)
Persistence and degradability:	Not available
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

<b>Section 13. Disposal Considerations (Non-mandatory)</b>	
Safe methods of disposal:	Observe all federal, state, and local environmental regulations when disposing of this material.

<b>Section 14. Transport Information (Non-mandatory)</b>						
US DOT	UN number:	N/A	Class:	N/A	Packing Group:	N/A
UN proper shipping name:			N/A			
Packing group, if applicable:			N/A			
Environmental hazards (marine pollutant, etc...)			Not available			
Special transport precautions:			N/A			

<b>Section 15. Regulatory Information (Non-mandatory)</b>	
Specific safety, health, and environmental regulations:	N/A

<b>Section 16. Other information</b>	
Date of preparation or last revision:	September 18, 2018