

# ENG SCIENTIFIC, LLC

121 Jersey Ave, 2<sup>nd</sup> Floor  
New Brunswick, NJ, USA 08901

## SAFETY DATA SHEET (SDS)

### #1 - IDENTIFICATION

**Product Identifier – MIF Stain and Fixative Kit (Solution II)**

**Product Code – 6780, 6782**

**Synonyms – Lugol's Iodine**

**Recommended use -** Professional, scientific and medical-technical activities

**Recommended restrictions -** None known

**Manufacturer:**

**Company Name -** ENG Scientific, LLC  
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### #2 - Hazard(s) Identification

**Physical hazards** N/A Category 0

**Health hazard** N/A Category 0

**Label elements**



**Signal word** None

**Hazard statement** N/A

**Precautions** N/A

**Storage** Store at room temperature

**Supplemental info** Avoid release to the environment

**Disposal** Dispose of contents-according to local regulations

**NFPA Rating** - HEALTH: 0

- FLAMMABILITY: 0

- REACTIVITY: 0

### #3 – Composition

**Chemical name:** Iodine CAS # 7553-56-2

Potassium Iodide CAS # 7681-11-0

### #4 – First-aid measures

**Inhalation:** Harmful if inhaled or swallowed. Remove to fresh air.

**Eye contact:** Remove contact lenses if worn. Flush eyes with water if irritated. Mild irritant.

**Skin contact:** Wash skin and clothing with soap and water.

**Swallowing:** If swallowed, immediately drink two glasses of water.

### #5 – Fire-fighting measures

**Extinguishing media:** Water spray, carbon dioxide, dry chemical powder, alcohol or universal type foam.

**Special fire-fighting procedures:** Water spray, carbon dioxide, dry chemical powder, alcohol or universal type foam.

## **#6 – Accidental release measures**

**Steps to be taken in case material is released or spilled:** Wear gloves and soak up spilled solution with disposable towels. Small spills should be flushed with water. Large spills should be collected for disposal. Dilute and wash down drain with excess water.

## **#7 – Handling and storage**

**Handling:** Protect for damage.

**Storage:** Store at room temperature and in a closed container.

## **#8 – Exposure controls/personal protection**

**Respiratory protection:** N/A

**Ventilation:** N/A

**Protective gloves:** Standard

**Eye protection:** N/A

**Other protective equipment:** Lab coat.

## **#9 – Physical and chemical properties**

**Appearance:** Dark amber liquid.

**Odor:** Pungent odor.

**Boiling point:** 184.4°C

**Specific gravity:** (H<sub>2</sub>O = 1) 4.930

**Vapor density:** (air = 1) 8.8

**Solubility in H<sub>2</sub>O** = Complete

**Freezing point:** N/A

**Evaporation Rate** = N/A

**Flash point:** N/A

(test methods)

## **#10 – Stability and reactivity**

**Stability:** Stable as supplied.

**Incompatibility:** Magnesium, zinc, ammonia, corrodes steel.

**Conditions to avoid:** N/A

**Hazardous polymerization:** Will not occur.

## **#11 - Toxicology information**

**Route of Exposure – Inhalation** N/A

**Route of Exposure – Skin** N/A

**First Aid – Skin** N/A

**Route of Exposure – Eyes** Tearing might occur.

**First Aid – Eyes** Flush eyes with water if irritated.

**Route of Exposure – Ingestion** Practically non-toxic.

**Health Conditions Aggravated by Exposure** N/A

## **#12 – Ecological information**

Small spills should be collected with disposable towels. Large spills should be collected and washed down drain with water.

## **#13 – Disposal considerations**

Disposal of hazardous material may be subject to federal, state or local regulations. The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, LLC shall be responsible.

## **#14 – Transport information**

**PROPER SHIPPING NAME:** N/A

**UN NUMBER:** N/A

**HAZARD CLASS:** N/A

**PACKING GROUP:** N/A

**DOT SHIPPING LABEL:** N/A

## **#15 – Regulatory information**

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b)Export Notification (40 CFR 707, SUBPT. D)** Not regulated

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not on regulatory list

**CERCLA Hazardous Substance List (40 CFR 302.4)** Not regulated

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard – No

Delayed Hazard –No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

**SARA 302 Extremely hazardous substance** Not listed

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated

**Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130):** Not regulated

**Clean Water Act (CWA) Section 112® (40 CFR 68.130):** Not regulated

**Safe Drinking Water Act (SDWA):** Not regulated

**Drug Enforcement Administration (DEA). List 2 Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and**

**Chemical Code Number:** Not listed

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c):**

Not regulated

**DEA Exempt Chemical Mixtures Code Number:** Not regulated

**Food and Drug Administration (FDA):** N/A

**US state regulation:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US. Massachusetts RTK – Substance List:** Not regulated

**US. New Jersey Worker and Community Right-to-Know Act:** Not regulated

**US. Pennsylvania RTK – Hazardous Substances:** Not regulated

**US. Rhode Island RTK:** Not regulated

**US California Proposition 65:**

**US-California Proposition 65 – Carcinogens and Reproductive Toxicity (CRT):** Not listed

**International Inventories**

<b>Country/Region</b>	<b>Inventory name</b>	<b>On Inventory*</b>
Canada	Non-domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Chemical Substances (EINECS)	Yes
U.S.	Toxic Substances Control Act (TSCA) Inventory	Yes
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*\* Yes complies with the inventory requirements administered by the governing country.*

## **#16 – Other information**

**Issue date** January 31, 2022

**Version #** 04

**Further information** The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, LLC shall be responsible.