



How the best perform

HF UWL Iodine Resin Unit

Safety Data Sheet

According to the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 8/6/2026 Revision date: 8/6/2026 Version: 2.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : HF UWL Iodine Resin Unit
Product code : IMS-1440

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Reducing microbial contamination and odor-causing bacteria in dental unit water lines.

1.4. Supplier's details

Manufacturer

Hu-Friedy Mfg. Co., LLC
2501 Sanders Rd.
Northbrook, IL 60062 USA
T 1-800-483-7433

1.5. Emergency phone number

Emergency number : 1-800-535-5053

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Specific target organ toxicity, Repeated exposure, Category 1	H372	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (oral).

2.2. GHS label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA)

: H315 - Causes skin irritation
H319 - Causes serious eye irritation
H372 - Causes damage to organs (thyroid gland) through prolonged or repeated exposure (oral).
Precautionary statements (GHS-CA) : P260 - Do not breathe dust, fume, gas, mist, vapours, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P314 - Get medical advice or attention if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of water.

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P362+P364 - Take off contaminated clothing and wash it before reuse.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Iodine	IODINE	CAS-No.: 7553-56-2	30 – 60

Comments : The concentrations listed represent actual ranges that result from batch variability.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Give milk, starch solution, or tablespoon sodium thiosulfate in a glass of water and get immediate medical attention. Treat for shock. Get medical advice/attention if you feel unwell.

First-aid measures general : Get medical advice/attention if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : Causes damage to organs (thyroid gland) through prolonged or repeated exposure (oral).

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Water spray.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Amines. Iodine. Oxides of nitrogen. Irritating vapours.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Cool closed containers exposed to fire with water spray. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Scoop up material and place in a disposal container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.
Other information : Beads are very slippery on hard smooth surface, and can cause serious slipping hazard.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Handle and open container with care.
Hygiene measures : Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.
Storage temperature : 2 – 27 °C

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Iodine (7553-56-2)

USA - ACGIH - Occupational Exposure Limits

Local name	Iodine, as I
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Iodine (7553-56-2)	
ACGIH® TLV® TWA	0.001 ppm (inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: Thyroid & maternal repro eff; fetal & neonatal dam. Notations: Skin; A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Iodine
OSHA PEL C	1 mg/m ³
OSHA PEL C	0.1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:
Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.
Eye protection:
Wear eye/face protection
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Beads.
Colour	: Dark purple to black
Odour	: Iodine / Amine
Odour threshold	: No data available
pH	: No data available

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Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: 1.11
Solubility	: Insoluble. Beads release iodine in water in concentrations < 300 ppm.
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Particle characteristics	: No data available

Iodine (7553-56-2)

Boiling point	184 °C
Vapour pressure	0.3 mm Hg (at 20 °C)
Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Heat. Incompatible materials.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. Amines. Iodine. Oxides of nitrogen.
Hardening time:	: No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Iodine (7553-56-2)

LD50 oral rat	14 g/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
LC50 inhalation rat	> 4.588 mg/l/4h
ATE CA (oral)	14000 mg/kg bodyweight
ATE CA (Dermal)	1100 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h

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Iodine (7553-56-2)	
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
STOT-repeated exposure	: Causes damage to organs (thyroid gland) through prolonged or repeated exposure (oral).

Iodine (7553-56-2)	
NOAEL (oral, rat, 90 days)	10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-repeated exposure	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (oral).
Aspiration hazard	: Not classified.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Causes damage to organs (thyroid gland) through prolonged or repeated exposure (oral).
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Iodine (7553-56-2)	
LC50 - Fish [1]	1.67 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: ECHA)
EC50 72h - Algae [1]	0.13 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

HF UWL Iodine Resin Unit	
Persistence and degradability	Not established.
Iodine (7553-56-2)	
Persistence and degradability	Rapidly degradable

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12.3. Bioaccumulative potential

HF UWL Iodine Resin Unit

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified.
Other information	: No other effects known.
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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SECTION 14 Transport information

In accordance with TDG

14.1. UN Number

UN-No. (TDG)	: Not regulated
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14.2. UN Proper Shipping Name

Proper Shipping Name (TDG)	: Not regulated
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14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG)	: Not regulated
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14.4. Packing group, if applicable

Packing group (TDG)	: Not regulated
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14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Special precautions for user

TDG
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

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SECTION 16 Other Information

Issue date : 8/6/2026
Revision date : 8/6/2026

Indication of changes:

SDS update.

Other information : None.
Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



Full text of hazard classes and H-statements:

H315	Causes skin irritation
H319	Causes serious eye irritation
H372	Causes damage to organs through prolonged or repeated exposure.

Safety Data Sheet (SDS), Canada - Nexreg 2025

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