

ACP 149 – Iodine Cleaner/Sanitizer

Date: 9/10/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Iodine Cleaner/Sanitizer

Other Means of Identification

Product Code ACP-149
Product Class Iodine Complex
EPA Registration Number 4959-27-5747

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Cleaning and sanitizing

Details of the Supplier of the Safety Data Sheet

Manufacturer Address Arrow Chemical Products, Inc.
 5933 W. KL Ave
 Kalamazoo, MI 49009

Emergency Telephone Number

Company Phone Number 313-237-0277
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/ Irritation	Category 1 Sub-Category B
Serious eye damage/eye irritation	Category 1

Signal Word

DANGER

Hazard Statements

Causes severe skin burns and eye damage.
 May cause respiratory irritation. May cause drowsiness or dizziness.
 May be corrosive to metals.

OSHA/HCS status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Read complete product label.



NOTE: Pictograms not permitted on label. EPA Reg. Product
 See section 15 Regulatory Information

Appearance Dark Brown

Physical State Liquid

Odor Iodine

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/ face protection. Use only outdoors or in a well-ventilated area.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. Seek medical attention. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up. Keep container tightly closed when not in use. Store in a well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Iodine	7553-56-2	1 – 10
Hydriodic Acid	10034-85-2	0 - 5

The specific identity and/or exact percentages are being withheld a trade secret. The balance of ingredients are not hazardous by GHS.

4. FIRST AID MEASURES

First Aid Measures

- Inhalation** Move to fresh air. If breathing is difficult give oxygen. If symptoms persist, call a physician.
- Eye Contact** Immediately flush with plenty of water. Remove contact lenses and continue flushing with water for 15 minutes. Call a physician immediately.
- Ingestion** Do NOT induce vomiting. Drink 1-2 glasses of water. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.
- Skin Contact** Take off contaminated clothing. Rinse skin with plenty of water for 15 minutes. Call a poison control center or doctor for treatment advice.

Indication of any Immediate Medical Attention and Special Treatment Needed

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Decomposition by contact with water may generate vapors which can be ignited by heat or open flames.

Specific Hazards Arising from the Chemical

This product causes burns of eyes, skin and mucous membranes.
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for Cleaning Up Soak up with absorbent material. Keep in suitable closed container for disposal. Dispose of the waste material according to local, state and federal requirements.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Incompatible with bases, bleach, and metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iodine 7553-56-2	TWA: 0.01 ppm STEL: 0.1 ppm	Ceiling: 0.1 ppm Ceiling: 1 mg/m ³	2 ppm

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Provide eye wash and safety shower.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Tight sealing safety goggles, face protection shield.

Skin and Body Protection Rubber or impervious gloves.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied are respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

When using this product do not eat, drink, or smoke. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Iodine
Appearance	Dark Brown	Odor Threshold	N/A
Color	Dark Brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	≤ 2	
Melting Point/Freezing Point	N/A	
Boiling Point/Boiling Range	N/A	
Flash Point	N/A	
Evaporation Rate	N/A	
Flammability (Solid, Gas)	N/A	
Upper Flammability Limits	N/A	
Lower Flammability Limit	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Specific Gravity	1.24	
Water Solubility	Complete	
Solubility in Other Solvents	N/A	
Partition Coefficient	N/A	
Auto ignition Temperature	N/A	
Decomposition Temperature	N/A	
Kinematic Viscosity	N/A	
Dynamic Viscosity	N/A	
Explosive Properties	N/A	
Oxidizing Properties	N/A	
Density	10.3 lbs/gal	

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing and storage.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Incompatible with bases, bleach, and metals.

Hazardous Decomposition Products

None known

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

- Inhalation** Avoid breathing vapors or mists. Excessive inhalation of iodine vapors may cause respiratory tract, nasal, and mucous membrane irritation with possible burns.
- Eye Contact** Contact with eyes will cause severe damage. Exposure to vapor can cause burning sensation in the eyes, tearing, and inflammation of the eye lids.
- Skin Contact** Causes skin irritation and burns. Product is corrosive and can cause penetrating lesions and brown staining.
- Ingestion** Harmful if swallowed. Ingestion of large doses may cause irritation of mouth of the digestive tract with thirst, nausea, vomiting, abdominal pain, hyper motility, and diarrhea, staining of mouth, esophagus, lips, mucous membranes, metallic taste, abdominal pain, and fever.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iodine 7553-56-2	14000 mg/kg		137 ppm

Information on Physical, Chemical and Toxicological Effects

Symptoms No information available.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

No information available.

Carcinogenicity No components of this product have been identified as a carcinogen or potential carcinogen by ACGIH, OSHA, IARC or NTP.

Numerical Measures of Toxicity

Unknown Acute Toxicity 1.5% of the mixture consists of ingredients of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacean
Iodine 7553-56	-	LC50: 96 h 0.53 mg/L		LC50: Water flea 0.16 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes Dispose of in accordance with federal, state, and local regulations. Dispose of hazardous waste in a RCRA licensed facility.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No 3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, N.O.S. (Iodine solution)
Hazard Class 8
Packing Group II

IATA

UN/ID No 3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, N.O.S. (Iodine solution)
Hazard Class 8
Packing Group II

IMDG

UN/ID No 3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, N.O.S. (Iodine solution)
Hazard Class 8
Packing Group II

15. REGULATORY INFORMATION

International Inventories

TSCA Listed
DSL Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

This product is a pesticide registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

EPA Registration Number 4959-27-5747

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations. Part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) OR THE Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this product.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

None known.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 3	Flammability 1	Instability 0	Physical Hazard
<u>HMIS</u>	Health Hazards 3	Flammability 1	Physical Hazards 0	Personal Protection N (Splash Goggles)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet