

SAFETY DATA SHEET

Tincture of Iodine 7%

Section 1. Chemical Product and Company Information

Product Name	:	Tincture of Iodine 7%
Other means of identification	:	Not applicable
Recommended Use	:	Topical antiseptic
Restrictions on Use	:	Reserved for industrial and professional use.
Supplier Information	:	AgroChem Inc. 26 Freedom Way Saratoga Springs, NY 12866 (518) 226-4850
Product Dilution	:	Ready-to-use
Date of issue	:	7/19/2015

EMERGENCY HEALTH INFORMATION : 1 (800) 424-9300
 Outside United States and Canada CALL: +1 (703) 741-5500

Section 2. Hazards Identification

GHS Classification	Category
Skin Sensitization	: 1
Reproductive Toxicity	: 1A
Serious Eye Damage / Eye Irritation	: 2A
Hazardous to the aquatic environment	: 2
Flammable Liquid	: 3

GHS Label Element

Hazard pictograms



Signal Word : Danger

Hazard Statements : Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May damage fertility or the unborn child. Toxic to aquatic life.

Precautionary Statements :

Prevention:

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not mix with bleach or other chlorinated products – will cause chlorine

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gas.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

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

Other hazards

: None Known

Section 3. Composition / Information on Ingredients

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Iodine	7553-56-2	7.0
2-Propanol	67-63-0 2.39	93.0

Section 4. First Aid Measures

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

Section 5. Fire-Fighting Measures

- Suitable extinguishing media : Use dry chemical, CO₂ or appropriate foam
Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Fire or excessive heat may produce hazardous decomposition products.
- Hazardous combustion products : Carbon dioxide, Carbon monoxide, Iodine and Iodine Compounds
Special protective equipment for fire-fighters : Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section 6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section 7. Handling and Storage

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Advice on safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Keep container tightly closed in a cool, well-ventilated place. Keep away from oxidizing materials and strong acids. Bond and ground containers when transferring liquid.

Conditions for safe storage

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Storage temperature

-30 °C to 50 °C

Section 8. Exposure Controls / Personal Protection

Ingredients	CAS-No.	ACGIH		OSHA PEL	
		(TWA)	(STEL)	(TWA)	(STEL)
Iodine	7553-56-2	0.01 ppm TWA (inhalable fraction and vapor)	0.1 ppm STEL (aerosol and vapor)		
2- Propanol	67-63-0	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m ³ TWA	N/A

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles / face protection

Hand protection

Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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Skin protection	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section 9. Physical and Chemical Properties

Appearance	:	Liquid
Color	:	Clear, Red
Odor	:	Pungent
pH	:	No data available
Flash point	:	12.78°C (55°F)
Odor Threshold	:	No data available
Auto Ignition Temperature	:	422°C (791.6°F)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Evaporation Rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	< 1
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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Molecular weight : No data available
VOC : No data available

Section 10. Stability and Reactivity

Reactivity : Not generally reactive under normal conditions.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid : Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Exposure to light. Elevated temperatures
Incompatible materials : Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials, Strong oxidizing agents, Metals (ferrous), Acetaldehydes, Rust, Strong reducing agents, Magnesium, Sulfur, Rubber, Plastics, Halogens.
Hazardous decomposition products : Iodine and Iodine Compounds, Carbon dioxide, Carbon monoxide

Section 11. Toxicological Information

Information on likely routes of exposure : Inhalation, Ingestion, Eye contact, Skin contact
Symptoms : Respiratory Irritation, Dermatitis, Central Nervous System Depression, Dizziness, Hyperthyroidism, Respiratory disorders, Eye disorders, Allergies, Impaired Kidney Function, Cardiovascular system, Central Nervous System Disorders, Pulmonary Edema, Headache, Iodism
Potential Health Effects :
Eyes : Causes serious eye damage.
Skin : Causes skin irritation.
Ingestion : Causes digestive tract burns.
Inhalation : May cause nose, throat, and lung irritation.
Chronic Exposure : Health injuries are not known or expected under normal use.
Experience with human exposure :
Eye contact : Redness, Pain, Corrosion
Skin contact : Redness, Pain, Corrosion

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Ingestion	:	Corrosion, Abdominal pain
Inhalation	:	Respiratory irritation, Cough
Toxicity	:	No data available
Acute oral toxicity	:	No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Carcinogenicity	:	Not carcinogenic
Mutagenicity	:	No evidence of a mutagenic effect
Teratogenicity	:	Evidence of a teratogenic effect (birth defect).
Sensitization:	:	Evidence of a sensitization effect.
Reproductive:	:	Evidence of negative reproductive effects.
Target Organ Effects	:	
	Acute	: Central Nervous System, Eyes
	Chronic	: Thyroid, Eyes

Section 12. Ecological Information

Overview	:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife
Environmental Effects	:	This product has no known ecotoxicological effects.
Persistence and degradability	:	Dissolved into water, Biodegradation, Adsorbs to sediment, evaporates into atmosphere.
Bioaccumulative potential	:	Bioconcentration is not expected to occur
Mobility in soil	:	This material is expected to have moderate mobility in soil. It absorbs to most soil types.
Other adverse effects	:	Combines with organics, forming new compounds.
		96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L
		96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]
	2-Propanol	: 48 HR EC50 DAPHNIA MAGNA 13299 MG/L
		72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
		96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
	Iodine	: No data available

Section 13. Disposal Considerations

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- Disposal methods : Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
- Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
- RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14. Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

- UN number : UN 1987
 Description of the goods : Alcohols, N.O.S (Isopropanol)
 Class : Class 3
 Packing group : P.G. II
 Environmentally hazardous :

Sea transport (IMDG/IMO)

- UN number : UN 1987
 Description of the goods : Alcohols, N.O.S (Isopropanol)
 Class : Class 3
 Packing group : P.G. II
 Environmentally hazardous :

Section 15. Regulatory Information

EPA Registration Number : None required.
EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity : None

Ingredients	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)

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- SARA 304** : This material does not contain any components with a section 304 EHS RQ.
- SARA 311/312 Hazards** : Acute Health Hazard
- SARA 302** : None of the components are subject to reporting levels established by SARA Title III, Section 302:
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- California Prop 65** : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

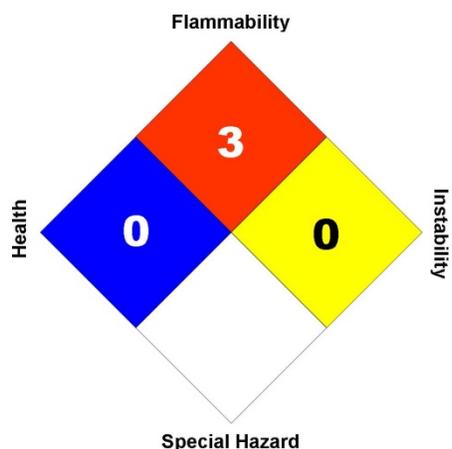
The ingredients of this product are reported in the following inventories:

- United States TSCA Inventory** : On TSCA Inventory
- Canadian Domestic Substances List (DSL)** : All components of this product are on the Canadian DSL.
- Australia Inventory of Chemical Substances (AICS)** : On the inventory, or in compliance with the inventory
- New Zealand. Inventory of Chemical Substances** : On the inventory, or in compliance with the inventory
- Japan. ENCS - Existing and New Chemical Substances Inventory** : On the inventory, or in compliance with the inventory
- Japan. ENCS - Existing and New Chemical Substances Inventory** : On the inventory, or in compliance with the inventory
- Japan. ISHL - Inventory of Chemical Substances** : On the inventory, or in compliance with the inventory
- Korea. Korean Existing Chemicals Inventory (KECI)** : On the inventory, or in compliance with the inventory
- Philippines Inventory of Chemicals and Chemical Substances (PICCS)** : On the inventory, or in compliance with the inventory
- China. Inventory of Existing Chemical Substances in China (IECSC)** : On the inventory, or in compliance with the inventory

Section 16. Other Information

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HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = Not Significant, 1 = Slight

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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 Prepared by : RJD

The information provided in this Material 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.