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Product Name: Iodine CVS (N/10) CAS No.: 7553-56-2 Version: 0

#### 1. Identification

**Product Code** : 97003

Company Name : Advent Chembio Private Limited

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## 2. Composition/Information on Ingredients

Ingredient CAS No Percent

IODINE 7553-56-2  $0.1 \pm 0.002$  N

#### 3. Hazards Identification

#### Hazard classification

#### Health hazards

Acute toxicity (Oral) : Category 2
Acute toxicity (Dermal) : Category 4
Acute toxicity (Inhalation - vapor) : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 1
Skin sensitizer : Category 1

**Unknown toxicity** 

Acute toxicity, dermal : 100 % Acute toxicity, inhalation, vapor : 100 % Acute toxicity, inhalation, dust or mist : 100 %

**Environmental hazards** 

Acute hazards to the aquatic : Category 1

environment

Unknown toxicity

Chronic hazards to the aquatic : 0 %

environment

Acute hazards to the aquatic : 100 %

environment Labels elements Hazard symbol







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Signal word : Danger

**Hazard statement**: Harmful in contact with skin or if inhaled.

Fatal if swallowed.

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Very toxic to aquatic life.

**Precautionary statement** 

Prevention : Wear protective gloves/protective clothing/eye protection/face

protection.

Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wash

thoroughly after handling.

Response : IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse. Collect

oillage.

Storage : Store in a well-ventilated place. Keep container tightly closed. Store

locked up.

**Disposal** : Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result

in GHS classification

: None.

#### 4. First Aid Measures

**General information** : Get medical advice/attention if you feel unwell. If medical advice is

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

**Ingestion** : Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs.

**Inhalation** : Move to fresh air. If breathing stops, provide artificial respiration. If

breathing is difficult, give oxygen. Call a POISON CENTER or

doctor/physician if you feel unwell.

**Skin contact**: Immediately remove contaminated clothing and shoes and wash skin

with soap and plenty of water. Get medical attention. Wash





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contaminated clothing before reuse. Destroy or thoroughly clean

contaminated shoes.

Immediately flush with plenty of water for at least 15 minutes. If Eye contact

easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure,

move to fresh air. Get medical attention immediately. Causes severe skin and eye burns. Causes digestive tract burns.

Most important symptoms/effects, acute and delayed

**Indication of immediate medical** attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

### 5. Fire fighting measures

Strong oxidizer - contact with other material may cause fire. General fire hazards

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media

appropriate for surrounding materials.

Unsuitable extinguishing media

Specific hazards arising from the

chemical

None known.

Strong oxidizer. Enhances combustion of organic matter and other

combustible materials.

Special protective equipment and precautions for firefighters

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool. Cool containers

exposed to flames with water until well after the fire is out.

Special protective equipment for

fire-fighters

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.



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#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up

: Do not absorb in sawdust or other combustible materials. Sweep up and place in a clearly labeled container for chemical waste. Clean

surface thoroughly to remove residual contamination.

Inform authorities if large amounts are involved.

**Environmental precautions** 

**Notification Procedures** 

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

#### 7. Handling and Storage

Precautions for safe handling

: Do not get in eyes. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep away from combustible material. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed. Store in a well-ventilated place. Keep away from sources of ignition - No smoking. Keep away from combustible material

## 8. Exposure Controls Personal Protection

### **Control parameters**

Occupational exposure limits

Chemical identity	Type	Exposure Limit	Source	
		values		
IODINE - Inhalable	TWA	0.01 ppm	US. ACGIH Threshold Limit Values (2011)	
fraction and vapor.				
IODINE - Vapor and	STEL	0.01 ppm	US. ACGIH Threshold Limit Values (2011)	
aerosol.				
IODINE	Ceil_Time	0.1 ppm 1 mg/m3	US. NIOSH: Pocket Guide to Chemical	
			Hazards (2010)	
	Ceiling	0.1 ppm 1 mg/m3	US. OSHA Table Z-1 Limits for Air	





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		Contaminants (29 CFR 1910.1000) (02 2006)	
Ceiling	0.1 ppm 1 mg/m3	US. OSHA Table Z-1-A (29 CFR	
		1910.1000) (1989)	
Ceiling	0.1 ppm 1 mg/m3	US. Tennessee. OELs. Occupational	
		Exposure Limits, Table Z1A (06 2008)	
ST ESL	10 μg/m3	US. Texas. Effects Screening Levels (Texas	
		Commission on Environmental Quality) (12	
		2010)	
AN ESL	1 μg/m3	US. Texas. Effects Screening Levels (Texas	
		Commission on Environmental Quality) (12	
		2010)	
ST ESL	1 ppb	US. Texas. Effects Screening Levels (Texas	
		Commission on Environmental Quality) (12	
		2010)	
AN ESL	0.1 ppb	US. Texas. Effects Screening Levels (Texas	
		Commission on Environmental Quality) (12	
		2010)	
Ceiling	0.1 ppm 1 mg/m3	US. California Code of Regulations, Title 8,	
		Section 5155. Airborne Contaminants (08	
		2010)	

**Appropriate engineering controls** : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be

used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation

equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles). Wear a full-face

respirator, if needed.

**Hand protection** : Chemical resistant gloves.

Other : Wear suitable protective clothing and gloves.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator.

Hygiene measures : Do not get in eyes. Observe good industrial hygiene practices. Wash

contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

Contaminated work clothing should not be allowed out of the workplace.

Provide eyewash station and safety shower.



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### 9. Physical and Chemical Properties

**Appearance** : Brown colour liquid.

Odor : Sharp characteristic odor

**pH** : No data available.

Melting point/freezing point : 113.7 °C Initial boiling point and boiling : 184.4 °C

range

Flash Point : Not applicable
Vapor pressure : 0.031 kPa (25 °C)
Vapor density : No data available.
Relative density : 4.93 (25 °C)
Solubility in water : Slightly Soluble
Solubility (other) : No data available.

Formula : I2

Molecular Weight : 253.81 g/mol

#### 10. Stability and Reactivity

**Reactivity**: No dangerous reaction known under conditions of normal use.

**Chemical stability** : Material is stable under normal conditions. **Possibility of hazardous reactions** : Hazardous polymerization does not occur.

Conditions to avoid : Sunlight. Avoid contact with strong reducing agents. Contact with

combustibles. Contact with incompatible materials.

Incompatible materials : Ammonia, acetylene, acetaldehyde, powdered aluminum, active metals,

liquid chlorine.

**Hazardous decomposition products**: By heating and fire, toxic vapors/gases may be formed.

### 11. Toxicological Information

### Information on likely routes of exposure

**Ingestion** : Harmful if swallowed.

**Inhalation** : Severely irritating to respiratory system.

**Skin contact**: Causes skin burns. May cause an allergic skin reaction.

**Eye contact** : Causes eye burns.

Information on toxicological effects

**Acute toxicity (list all possible routes of exposure)** 

**Oral Product** : LD 50 (Rat): 14 g/kg

LDLo (Human): 28 mg/kg

**Dermal Product** : No data available.

Inhalation Product: No data available.Repeated dose toxicity Product: No data available.Skin corrosion/irritation Product: No data available.





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Serious eye damage/eye irritation

**Product** 

Respiratory or skin sensitization

**Product** 

IARC Monographs on the

**Carcinogenicity Product** 

**Evaluation of Carcinogenic Risks** 

to Humans DIOXANE

**US. National Toxicology Program** 

(NTP) Report on Carcinogens

**DIOXANE** 

**US. OSHA Specifically Regulated** Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product No mutagenic components identified In vivo Product No mutagenic components identified **Reproductive toxicity Product** May cause harm to the unborn child.

Specific target organ toxicity -

single exposure Product

Specific target organ toxicity -

repeated exposure Product

**Aspiration hazard Product** Other effects

No data available.

Not a skin sensitizer.

This substance has no evidence of carcinogenic properties.

No carcinogenic components identified

No carcinogenic components identified

No carcinogenic components identified

None known.

None known.

Not classified. None known.

### 12. Ecological Information

**Ecotoxicity** 

Acute hazards to the aquatic environment:

LC 50 (Guppy (Poecilia reticulata), 24 h): 3 mg/l Mortality Fish Product

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96

h): 0.48 - 0.58 mg/l Mortality

No data available on bioaccumulation.

**Aquatic invertebrates Product** LC 50 (Water flea (Daphnia magna), 96 h): 0.51 - 0.68 mg/l

Mortality.

**Chronic hazards to the aquatic environment:** 

**Fish Product** No data available. **Aquatic invertebrates Product** No data available. **Toxicity to Aquatic Plants Product: :** No data available.

Persistence and degradability

**Biodegradation Product** The product is not expected to be biodegradable.

**BOD/COD** ratio Product No data available.

**Bioaccumulative potential** 

**Bioconcentration factor (BCF)** 

**Product** 

Partition coefficient n-octanol / Log Kow: 2.49

water (log Kow) Product

Mobility in soil No data available.





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Other adverse effects Very toxic to aquatic organisms.

## 13. Disposal consideration

**Disposal instructions** Discharge, treatment, or disposal may be subject to national, state,

> or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Since emptied containers retain product residue, follow label

warnings even after container is emptied.

### 14. Transport Information

Contaminated packaging

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	UN 3495	IODINE	8, 6.1	III	No
IMDG	UN 3495	IODINE	8, 6.1	III	No
IATA	UN 3495	IODINE	8, 6.1	III	No

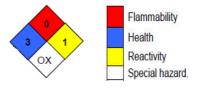
### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

### 16. Other Information

### NFPA Hazard ID







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Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

OX: Oxidizer

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Version : 0

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