



## SAFETY DATA SHEET

**0.1 N Iodine****1. Chemical product & Company Identification.****Product details**

Chemical Name : 0.1 N Iodine

**Name of Manufacturer**Ya Thai Chemical Co., Ltd. 78/9 Moo 5 Takam, Bangpakong, Chachoengsao 24130  
THAILANDTel: 66-3857-4400 Fax: 66-3857-3700 Email: [yathai@yathai.co.th](mailto:yathai@yathai.co.th)**2. Hazard Identification.**

Health hazards	:	Skin irritation - Categories 2
	:	Eye irritation - Categories 2A
	:	Skin sensitization - Categories 1
	:	Aquatic acute - Categories 3

Label element

Symbol



Signal word	:	<b>Warning</b>
Hazard statements	:	H315 Causes skin irritation
	:	H317 May cause an allergic skin reaction
	:	H319 Causes serious eye irritation
	:	H402 Harmful to aquatic life
Precautionary Statements		
Prevention	:	P261 Avoid breathing mist, vapours, spray
	:	P264 Wash exposed skin thoroughly after handling
	:	P272 Contaminated work clothing should not be allowed out of the workplace
	:	P273 Avoid release to the environment
	:	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response	:	P302+P352 IF ON SKIN: Wash with plenty of soap and water
	:	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Disposal	:	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**3. Composition/Information on Ingredients.**

Chemical Name	:	0.1 N Iodine
CAS Number	:	7553-56-2

EC Number	:	231-442-4
Chemical Formula	:	I <sub>2</sub>
Molecular Weight	:	253.81 g/mol

## 4. First Aid Measures.

Eye Contact	:	Rinse thoroughly with plenty of water for at least 15 minutes, consult a physician.
Skin Contact	:	Take off immediately all contaminated clothing. Rinse skin with water/shower.
Inhalation	:	If breathed in, move person into fresh air.
Swallowing	:	Immediately make victim drink water (two glasses at most). Call a physician.
General Information	:	Immediately remove any clothing soiled by the product.

## 5. Fire Fighting Measures.

### Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding condition.

### Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapours.

### Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

### Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. Accidental Release Measures.

### Person-related safety precautions

Wear protective equipment. Keep unprotected persons away.

### Measures for environmental protection

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

### Measures for cleaning/collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

For large amounts: Pump off product.

## 7. Handling and Storage.

### Information for safe handling

Should wear proper protective equipment so as not to breathe mist, contact with skin, mucous membrane and clothing, and get in eyes.

Open and handle receptacle with care.

Avoid generation of vapours/aerosols.

### Storage

**Requirements to be met by storerooms and receptacles**

Prevent any seepage into the ground.

**Conditions for safe storage, including any incompatibilities**

Recommended storage temperature see product label.

**Further information about storage conditions**

Keep container tightly sealed.

The stability which is noticed on the label is only duty by right storage of the product.

**8. Personal Protection.****Exposure controls**

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Personal protective equipment (PPE)****Protection of hands**

Protective gloves.

**Eye protection**

Safety glasses.

**Respiratory protection**

: Not necessary at correctly use.

**Body protection**

: Protective work clothing.

**9. Physical and Chemical Properties.**

Appearance	:	Clear, liquid
Color	:	Brown
Odor	:	Weak odor
pH	:	Ca. 3.50
Specific gravity	:	1.00 - 1.10 at 25 °C
Melting point / range	:	No information available
Boiling point / range	:	No information available
Flash point	:	Not flammable
Self-igniting	:	Product is not self-igniting
Danger of explosion	:	Product does not present an explosion hazard
Solubility in/Miscibility with water	:	Soluble (at 25 °C)

**10. Physical Hazard (Stability & Reactivity).****Stability and Reactivity**

Stable under normal conditions.

**Possibility of hazardous reactions**

Violent reactions possible reaction partners of water.

**Conditions to avoid**

Direct sunlight, extremely high or low temperature.

**Incompatible materials**

Metals. Strong reducing agents. Ammonia. Strong bases.

**Hazardous decomposition products**

Iodine vapour. Potassium oxide, Hydrogen chloride.

## 11. Toxicological Information.

### Acute toxicity

Oral LD50 : 17326 mg/kg (rat)

### Primary irritant effect

Skin : Slight irritation.

Eyes : Slight irritation.

Sensitization : Sensitization possible in predisposed persons.

## 12. Ecological Information.

### Aquatic toxicity

EC50 : 15.76 mg/l (Daphnia)

### Persistence and degradability

No information available.

### Bio-accumulative potential

No information available.

COD and BOD value will increase when flushed into sewers or streams.

Hazardous for water, do not allow product to reach ground water, water course or sewage system.

## 13. Disposal Consideration.

### Waste Disposal

Dispose after activated sludge process.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport Information.

### International regulation

Un Class : Not applicable

UN Number : Not applicable

UN Proper shipping name : Not applicable

Packing group : Not applicable

## 15. Regulatory Information.

Follow all regulation in your country.

## 16. Other Information.

This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein. We can not quarantine that These are the only hazards which exist.