

## MATERIAL SAFETY DATA SHEET

### TETRA BUTYL AMMONIUM IODIDE

#### 1. Chemical product and company identification

##### 1.1 Product Identifiers:

**Product Name** : TETRA BUTYL AMMONIUM IODIDE

**CAS No** : 311-28-4

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

##### 1.3 Details of the supplier of the safety data sheet

**Supplier:** Infinium Pharmachem Limited (AN ISO 9001:2015, 14001:2015  
CERTIFIED CO.)  
37-38-39, G.I.D.C, Sojitra  
Dist.: Anand  
Gujarat, India

##### Emergency contact number:

**Tel** : 0091-2697-234987

**Fax** : 0091-2697-234987

**Email** : [info@infiniumpharmachem.com](mailto:info@infiniumpharmachem.com)

#### 2. Hazards identification

##### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

For the full text of the H-Statements mentioned in this Section, see Section 16

## 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram

Signal word

Warning

### Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Supplemental Hazard  
Statements**

none

## 2.3 Other hazards –

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or high

## 3. Composition, information on ingredients

<b>Chemical Formula</b>	:	C <sub>16</sub> H <sub>36</sub> NI
<b>CAS No.</b>	:	311-28-4
<b>Molecular Weight</b>	:	369.38 g/mol

## 4. First aid measures

### 4.1 Description of first aid measures

**General advice**



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Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

No data available

**5. Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen iodide

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary

**5.4 Further information**

No data available

**6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.



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## **6.2 Environmental precautions**

Do not let product enter drains.

## **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **6.4 Reference to other sections**

For disposal section 13.

# **7. Handling and storage**

## **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

Store at ambient temperature. Keep container tightly closed in a well-ventilated place.

Light sensitive, Hygroscopic.

## **7.3 Specific end uses**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **8. Exposure controls, personal protection**

## **8.1 Control parameters**

Components with workplace control parameters

## **8.2 Exposure controls**

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique



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(Without touching glove's outer surface) to avoid skin contact with this product. Dispose of Contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## 9. Physical and chemical properties

### 9.1 Information on Basic physical & chemical properties

<b>Physical State</b>	:	Solid. (Crystalline powder)
<b>Appearance</b>	:	White to slight yellow
<b>Odor</b>	:	No data available
<b>pH</b>	:	Not available.
<b>Vapor Pressure</b>	:	Not applicable
<b>Vapor Density</b>	:	Not available
<b>Evaporation Rate</b>	:	Not available.
<b>Viscosity</b>	:	Not available.
<b>Boiling Point</b>	:	>250°C (482°F)
<b>Freezing/Melting Point</b>	:	140-145°C
<b>Autoignition Temperature</b>	:	Not applicable.
<b>Flash Point</b>	:	Not applicable.
<b>Decomposition Temperature</b>	:	625 °C
<b>Explosion Limits, Lower</b>	:	Not available.
<b>Upper</b>	:	Not available.
<b>Specific Gravity/Density</b>	:	No data available
<b>Molecular Formula</b>	:	C <sub>16</sub> H <sub>36</sub> NI
<b>Molecular Weight</b>	:	369.38 g/mol



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**Solubility** : Partially soluble in cold water. Solubility in Water:  
approximately 15% w/w @ 15 °C

## **9.2 Other safety Information**

No data available

## **10. Stability and Reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

No data available

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

Strong oxidizing agents

### **10.6 Hazardous decomposition products**

Other decomposition products - no data available

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - rat - 1.990 mg/kg

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

No data available

#### **Respiratory or skin sensitization**

No data available





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### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **Reproductive toxicity**

No data available

### **Specific target organ toxicity- single exposure**

Inhalation - May cause respiratory irritation.

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

### **Potential health effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes serious eye irritation.

### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **Additional Information**

RTECS: BS5450000

## **12. Ecological information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

No data available

### **12.6 Other adverse effects**

No data available

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **Contaminated packaging**

Dispose of as unused product

## **14. Transport information**

### **14.1 UN number**

ADR/RID: - IMDG: - IATA: -

### **14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### **14.3 Transport hazard class (es)**

ADR/RID: - IMDG: - IATA: -

### **14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

### **14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no





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#### 14.6 Special precautions for user

##### Further information

Not classified as dangerous in the meaning of transport regulations.

#### 15. Regulatory information

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

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

##### 15.2 Chemical Safety Assessment

No data available

#### 16. Additional information

##### Full text of H-Statements referred to under sections 2.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

##### Disclaimer:

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*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Infinium Pharmachem Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Infinium Pharmachem Limited has been advised of the possibility of such damages.*

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