


<b>Material Safety Data Sheet</b>	
<b>TETRA BUTYL AMMONIUM IODIDE GR</b>	<b>VERSION : 01</b> <b>DATE OF ISSUE :02-12-2016</b> <b>SUPERSEDES : Nil</b>
<b>Product Code : 70590</b>	<b>Page 1 of 8</b>

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name :** TETRABUTYL AMMONIUM IODIDE GR

**Product code :** 70590

**Identification of the product :** TETRABUTYL AMMONIUM IODIDE GR

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

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

**Use :** Industrial. For professional use only.

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

**Company identification :** MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

## **2. Hazards identification -DSD**

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

**Classification EC 67/548 or EC 1999/45**

**Classification :** Xn; R22

Xi; R36/37/38

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards :** Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335

Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

### **2.2. Label elements**

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s) :** Xn : Harmful



**R Phrase(s) :** R22 : Harmful if swallowed.

R36/37/38 : Irritating to eyes, respiratory system and skin.

**S Phrase(s) :** S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 : Wear suitable protective clothing.

**Labelling Regulation EC 1272/2008 (CLP)**

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## Hazard pictograms



**Signal words :** Warning

**Hazard statements :** H302 : Harmful if swallowed.

H319 : Causes serious eye irritation.

H315 : Causes skin irritation.

H335 : May cause respiratory irritation.

### Precautionary statements

• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

P332+P313: If skin irritation occurs : Get medical advice.

P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

• **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.

P405: Store locked up.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### 3. Composition/information on ingredients

**Substance / Preparation** : TETRABUTYL AMMONIUM IODIDE GR

CAS No :311-28-4

Substance.

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Contains no other components or impurities which will influence the classification of the product.

## **4. First aid measures**

### **4.1. Description of first aid measures**

**Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse.

**Eye contact** : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists : Get medical advice.

**Ingestion** : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

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

**Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

### **5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **6. Accidental release measures**

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

**For emergency responders** : Equip cleanup crew with proper protection.

Ventilate area.

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**For non-emergency personnel :** Evacuate unnecessary personnel.

## **6.2. Environmental precautions**

**Environmental precautions :** Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

## **6.3. Methods and material for containment and cleaning up**

**Clean up methods :** On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## **6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

**Handling :** Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

**Technical protective measures :** Provide good ventilation in process area to prevent formation of vapour.

**Special precautions :** Avoid breathing dust, fume, gas, mist, vapours, spray.

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

**Storage :** Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from :** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### **7.3. Specific end use(s)**

**Specific end use(s) :** None.

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

### **8.1. Exposure controls**

**Personal protection :** Avoid all unnecessary exposure.

- **Respiratory protection :** Wear approved mask.
- **Hand protection :** Wear protective gloves.
- **Skin protection :** Wear suitable protective clothing.
- **Eye protection :** Chemical goggles or safety glasses.
- **Others :** When using, do not eat, drink or smoke.

### **8.2. Control parameters**

**Occupational Exposure Limits :** No data available.

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

**Physical state at 20 °C :** Solid.

**Odour threshold :** No data available.

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**pH value : Not applicable.**

**Melting point [°C] : 144 °C**

**Decomposition point [°C] : N/A**

**Critical temperature [°C] : N/A**

**Auto-ignition temperature [°C] : N/A**

**Flammability (solid, gas) : N/A**

**Flash point [°C] : N/A**

**Boiling point [°C] : N/A**

**Initial boiling point [°C] : N/A**

**Final boiling point [°C] : N/A**

**Evaporation rate : N/A**

**Vapour pressure [20°C] : N/A**

**Vapour pressure mm/Hg : N/A**

**Vapour density : N/A**

**Density [g/cm<sup>3</sup>] : 1,2**

**Relative density, gas (air=1) : N/A**

**Relative density, liquid (water=1) : N/A**

**Solubility in water [% weight] : Partially soluble in**

**Solubility in water : N/A**

**Log Pow octanol / water at 20°C : No data available.**

**Solubility : N/A**

**Viscosity at 40°C [mm<sup>2</sup>/s] : N/A**

## **9.2. Other information**

**Explosive properties : N/A**

**Explosion limits - upper [%] : N/A**

**Explosion limits - lower [%] : N/A**

**Oxidising properties : No data available.**

## **10. Stability and reactivity**

### **10.1. Reactivity**

**Reactivity : Not established.**

### **10.2. Chemical stability**

**Chemical stability : Stable under recommended storage conditions.**

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

**Hazardous reactions : Not established.**

### **10.4. Conditions to avoid**

**Conditions to avoid : Direct sunlight. Extremely high or low temperatures.**

### **10.5. Incompatible materials**

**Materials to avoid : Strong acids. Strong bases.**

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## **10.6. Hazardous decomposition products**

**Hazardous decomposition products :** Fumes. Carbon monoxide. Carbon dioxide.

## **11. Toxicological information**

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

#### **Acute toxicity**

- **Inhalation :** Based on available data, the classification criteria are not met.
- **Dermal :** Based on available data, the classification criteria are not met.
- **Ingestion :** Harmful if swallowed.

**Corrosion :** Based on available data, the classification criteria are not met.

**Irritation :** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

**Sensitization :** Based on available data, the classification criteria are not met.

**Mutagenicity :** Based on available data, the classification criteria are not met.

**Carcinogenicity :** Based on available data, the classification criteria are not met.

**Toxic for reproduction :** Based on available data, the classification criteria are not met.

**STOT-single exposure :** Based on available data, the classification criteria are not met.

**STOT-repeated exposure :** Based on available data, the classification criteria are not met.

**Aspiration hazard :** Based on available data, the classification criteria are not met.

## **12. Ecological information**

### **12.1. Toxicity**

**Toxicity information :** Not established.

### **12.2. Persistence - degradability**

**Persistence - degradability :** Biodegradable.

### **12.3. Bioaccumulative potential**

**Bioaccumulative potential :** Not established.

### **12.4. Mobility in soil**

**Mobility in soil :** Not established.

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

**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **12.6. Other adverse effects**

**Environmental precautions :** Avoid release to the environment.

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

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**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## **14. Transport information**

### **14.1. Land transport (ADR-RID)**

**General information :** Not regulated.

### **14.2. Sea transport (IMDG) [English only]**

**General information :** Not regulated.

### **14.3. Air transport (ICAO-IATA) [English only]**

**General information :** Not regulated.

## **15. Regulatory information**

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

**Safety, health and environmental :** Ensure all national/local regulations are observed.  
**regulations/legislation specific for the substance or mixture**

**REACH Restrictions - Annex XVII :** The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV :** The components of this product are not subject to authorization.

### **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment :** It has not been carried out.

## **16. Other information**

**Abbreviations and acronyms :** PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used :** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information :** None.

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## End of document

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