

CAS No: 311-28-4 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
EC no	: 206-220-5
CAS No	: 311-28-4
Product code	: 06218
Chemical structure	: H ₃ C CH ₃
Synonyms	: TBAI

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

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1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral),
Category 4H302Serious eye damage/eye
irritation, Category 2H319Skin corrosion/irritation,
Category 2H315Specific target organ
toxicity — Single
exposure, Category 3,
Respiratory tract irritationH302

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22 Xi; R36/37/38 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) I	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	 H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: TETRABUTYL AMMONIUM IODIDE AR
CAS No		: 311-28-4
EC no		: 206-220-5

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures	
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First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label).
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
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5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective	e equipment and emergency procedures
	e equipment and emergency procedures
6.1. Personal precautions, protective6.1.1. For non-emergency personnelEmergency procedures	 equipment and emergency procedures Evacuate unnecessary personnel.
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Emergency procedures	
6.1.1. For non-emergency personnelEmergency procedures6.1.2. For emergency responders	: Evacuate unnecessary personnel.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	: Evacuate unnecessary personnel.: Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 	: Evacuate unnecessary personnel.: Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling 	 Evacuate unnecessary personnel. Use personal protective equipment as required. Stop release. nment and cleaning up Clear up rapidly by scoop or vacuum. : Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-

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Storage conditions	: Keep container tightly closed. Store in original container. Store in a dry place.
-	Protect from moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters No additional information available	
No additional information available	
3.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical ar	
Physical state	: Solid
Molecular mass	: 369.38 g/mol
Colour	: Off white crystalline.
Odour	: amine like.
Odour threshold	: No data available
Н	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 144 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

: No data available

: 1.2 g/cm³

Relative density

Density

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Solubility	: Water: Partially soluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

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Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	s : Harmful if swallowed.
SECTION 12: Ecological information	h
12.1. Toxicity No additional information available	
12.2. Persistence and degradabil No additional information available	ity
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB as	ssessment
No additional information available	
12.6. Other adverse effects No additional information available	
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods Product/Packaging disposal	: Dispose of contents/container to
recommendations	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG	/ IATA / ADN
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No.(IATA)	: Not applicable
UN-No.(ADN) UN-No. (RID)	: Not applicable : Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	: Not applicable : Not applicable
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable

: Not applicable

: Not applicable

Proper Shipping Name (ADN)

Proper Shipping Name (RID)

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14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
Transport hazard class(es) (INDG)	
1474	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TETRABUTYL AMMONIUM IODIDE AR is not on the REACH Candidate List

TETRABUTYL AMMONIUM IODIDE AR is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BlmSchV

Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product