

CAS No: 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
	:
Product code	: 6221D
Chemical structure	CH ₃
	[∶]
	ĊН₃

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
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the sa	afety data sheet
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Co 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie	9
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),H300Category 1Skin corrosion/irritation,H315Category 2Serious eye damage/eyeH319irritation, Category 2Specific target organH335toxicity — Singleexposure, Category 3,Respiratory tract irritation

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

T; R25 Xn; R21 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

2.2. Label elements	
Labelling according to Regulation (EC) N	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	: GHS06
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H300 - Fatal 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 P264 - Wash thoroughly after handling P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/

able
ormation on ingredients
: TETRA METHYL AMMONIUM BROMIDE FOR SYNTHESIS
see section 16
res
id measures

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.

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First-aid measures after skin contact	: Immediately call a POISON CENTER or doctor/physician. Specific measures (see on this label). 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. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label).	
4.2. Most important symptoms and e	ffects, 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	: Fatal if swallowed.	
-	lical 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.	
5.2. Special hazards arising from the	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 measures	δ	
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Use personal protective equipment as required.	
Emergency procedures		
	: Stop release.	
	. Stop release.	
6.2. Environmental precautions	. Stop Telease.	
6.2. Environmental precautions Avoid release to the environment.	. Stop Telease.	
Avoid release to the environment.		
Avoid release to the environment. 6.3. Methods and material for contain	nment and cleaning up	
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Avoid release to the environment. 6.3. Methods and material for contain	nment and cleaning up	
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 Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections 	nment and cleaning up	
 Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	nment and cleaning up	
 Avoid release to the environment. 6.3. Methods and material for contain 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 	nment and cleaning up : Clear up rapidly by scoop or vacuum.	
 Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	nment and cleaning up	

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7.2. Conditions for safe storage, incl	
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	protoction
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters No additional information available	
8.2. 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 a	
Physical state	: Solid
Molecular mass Colour	: 154.05 g/mol : White crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: > 300 °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
Relative density	: No data available
Solubility	: Water: Soluble in water

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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 read	tions
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 pr	roducts
No additional information available	
SECTION 11: Toxicological information	on
11.1. Information on toxicological	effects
Acute toxicity	: Oral: Fatal if swallowed.
Skin corrosion/irritation Serious eye damage/irritation	Causes skin irritation.Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause respiratory irritation.
exposure)	

Specific target organ toxicity (repeated : Not classified exposure)

: Not classified

Aspiration hazard

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Potential adverse human health effects and symptoms	: Harmful in contact with skin. Toxic if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
40.0 Demistere en dele medebilite	
12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: 2811
UN-No. (IMDG)	: 2811
UN-No.(IATA)	: 2811
UN-No.(ADN)	: 2811
UN-No. (RID)	: 2811
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (ADN)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (RID)	: TOXIC SOLID, ORGANIC, N.O.S.
Transport document description (ADR)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, II, (D/E)
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Transport document description (IATA) : UN 2811 To	DXIC SOLID, ORGANIC, N.O.S., 6.1, II
Transport document description (ADN) : UN 2811 T	DXIC SOLID, ORGANIC, N.O.S., 6.1, II
Transport document description (RID) : UN 2811 TO	DXIC SOLID, ORGANIC, N.O.S., 6.1, II

14.3. Transport hazard class(es) ADR

Transport hazard class(es) (ADR)	
Danger labels (ADR)	



: 6.1 : 6.1

: 6.1

: 6.1

: 6.1 : 6.1

: 6.1 : 6.1

IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)

ΙΑΤΑ

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	



ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

RID

Transport hazard class(es) (RID) Danger labels (RID)



: 11



14.4.	Packing	group
Packing	group (Al	DR)

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Packing group (IMDG)	: II
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
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	
Classification code (ADR)	: T2
Special provision (ADR)	: 274, 614
Limited quantities (ADR)	: 500g
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P002, IBC08
Special packing provisions (ADR)	: B4
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T 3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V11
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Hazard identification number (Kemler No.)	· 60
Hazard identification number (Kemler No.)	
Hazard identification number (Kemler No.) Orange plates	· 60
Hazard identification number (Kemler No.)	60 2811
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code	: 60 2811 : D/E
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea	: 60 2811 : D/E : 2X
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG)	: 60 2811 : D/E : 2X
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG)	 60 2811 D/E 2X 274 500 g
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	: 60 2811 : D/E : 2X : 274 : 500 g : E4
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	 60 2811 D/E 2X 274 500 g E4 P002
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	 60 2811 D/E 2X 274 500 g E4 P002 IBC08
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG)	 60 2811 D/E 2X 274 500 g E4 P002 IBC08 B2, B4
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	 60 2811 D/E 2X 274 500 g E4 P002 IBC08 B2, B4 T3
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	 60 2811 D/E 2X 2X 274 500 g E4 P002 IBC08 B2, B4 T3 TP33
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	 60 2811 D/E 2X 274 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	 60 2811 D/E 2X 274 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A
Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	 60 2811 D/E 2X 274 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A

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- Air transport		
PCA Excepted quantities (IATA)	:	E4
PCA Limited quantities (IATA)	:	Y644
PCA limited quantity max net quantity (IATA)	:	1kg
PCA packing instructions (IATA)	:	669
PCA max net quantity (IATA)	:	25kg
CAO packing instructions (IATA)	:	676
CAO max net quantity (IATA)	:	100kg
Special provision (IATA)	:	A3, A5
ERG code (IATA)	:	6L
- Inland waterway transport		
Classification code (ADN)	:	T2
Special provisions (ADN)	:	274, 614, 802
Limited quantities (ADN)	:	500 g
Excepted quantities (ADN)	:	E4
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	2
- Rail transport		
Classification code (RID)	:	T2
Special provision (RID)	:	274, 614
Limited quantities (RID)	:	500g
Excepted quantities (RID)	:	E4
Packing instructions (RID)	:	P002, IBC08
Special packing provisions (RID)	:	B4
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	Т3
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAH, L4BH
Special provisions for RID tanks (RID)	:	TU15
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W11
Special provisions for carriage – Loading and unloading (RID)	:	CW13, CW28, CW31
Colis express (express parcels) (RID)	:	CE9
Hazard identification number (RID)	:	60

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

TETRA METHYL AMMONIUM BROMIDE FOR SYNTHESIS is not on the REACH Candidate List TETRA METHYL AMMONIUM BROMIDE FOR SYNTHESIS is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)		
Denmark			
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product		

contact with the product

Pregnant/breastfeeding women working with the product must not be in direct

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

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

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1	
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	
H300	Fatal if swallowed	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
R21	Harmful in contact with skin	
R25	Toxic if swallowed	
R36/37/38	Irritating to eyes, respiratory system and skin	
Т	Toxic	
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