

## CAS No: MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification	on of the substance/mixture and of the company/undertaking
1.1. Product identifi	
Product form	: Mixture :
Product code	: 6328D
Synonyms	: Titanium(III) Chloride Solution
1.2. Relevant identi	fied uses of the substance or mixture and uses advised against
1.2.1. Relevant identit	fied uses
Use of the substance/mix	ture : Industrial;For professional use only
<b>1.2.2.</b> Uses advised a No additional information	-
No additional information	avallable
1.3. Details of the s	upplier of the safety data sheet
LOBA CHEMIE PVT.LTD 107 Wode House Road, 400005 Mumbai - INDIA T +91 22 6663 6663 - F + info@lobachemie.com - y	Jehangir Villa, Colaba ⊦91 22 6663 6699
1.4. Emergency tele	phone number
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
SECTION 2: Hazards ide	entification
2.1. Classification o	of the substance or mixture
Classification according	g to Regulation (EC) No. 1272/2008 [CLP]
Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 1B	H314
Specific target organ	H335

Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

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

Hazard pictograms (CLP)	GHS05 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H290 - May be corrosive to metals</li> <li>H314 - Causes severe skin burns and eye damage</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (CLP)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

## 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients				
3.1.	Substance			
Not appl	icable			

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium(III) chloride solution	(CAS No) 7705-07-9	25 - 50	Skin Corr. 1B, H314 STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	5
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
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	S
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	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed
	areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	

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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 face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
<b>SECTION 9: Physical and chemical prop</b>	erties
9.1. Information on basic physical a	
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: No data available
Odour	: characteristic.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
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	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available

# TITANIUM TRICHLORIDE 30% SOLUTION Safety Data Sheet

Cidising properties       : No data available         Explosive limits       : No data available         92. Other information       Statian available         Stational information available       Statian available         Stational information available       Statian available         10.1. Reactivity       Thermal decomposition generates : Corrosive vapours.         10.2. Chemical stability       Stable under normal conditions.         10.3. Possibility of hazardous reactions       No additional information available         10.4. Conditional information available       Other sungingh. Overheeting. Open fiame. Heat.         10.5. Incompatible materials       No additional information available         10.6. Hazardous decomposition productis       Statian available         11.1. Information on toxicological effects       Acute lassified         Sticin corosion/infritation       : Serious eyve damage, category 1. implicit         Respiratory or skin sensitisation       : Not classified         Cernneel mutagenicity       : Not classified	Salety Data Sheet	
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exposure)		: May cause respiratory irritation.
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	Aspiration hazard	: Not classified

SECTION 12: Ecological information				
12.1. Toxicity				
No additional information available				
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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 asses No additional information available	ssment
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	: Dispose of contents/container to
Product/Packaging disposal	
recommendations	
recommendations	TA / ADN
recommendations SECTION 14: Transport information	TA / ADN
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IMDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
ADN	
Transport hazard class(es) (ADN)	: Not regulated
	· Nietus autota d
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	r
- Overland transport	
Classification code (ADR)	: C1
Special provision (ADR)	: 520
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Decking instructions (ADD)	- D001 (D000

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Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	
	80
	178
Tunnel restriction code (ADR)	: E
EAC code	: 2R
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B20
Tank instructions (IMDG)	: T8
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
MFAG-No	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provision (IATA)	: A3
ERG code (IATA)	: 8L

#### - Inland waterway transport

Not regulated

#### - Rail transport

Not regulated

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

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

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#### 15.1.2. National regulations

Germany AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV Denmark	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
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 H- and EUH-phrases:

Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

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