# CAS No: MSDS



### MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substar	nce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product code	: : 6327F
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
<b>1.2.1.</b> Relevant identified uses Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
1.2.2.Uses advised againstNo additional information available	
1.3. Details of the supplier of the sat	fety data sheet
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.c	
1.4. Emergency telephone number	
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards identification	
2.1. Classification of the substance	or mixture
Classification according to Directive 67/ Not classified	548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC No labelling applicable

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#### 2.3. Other hazards

No additional information available

#### SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Toluene	(CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601- 021-00-3	75 - 99	Repr.Cat.3; R63 F; R11 Xn; R65 Xn; R48/20 Xi; R38 R67	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Repr. 2, H361d Skin Irrit. 2, H315 STOT SE 3, H335 STOT RE 2, H373 STOT SE 3, H336
Titanium tetrachloride	(CAS No) 7550-45- 0 (EC no) 231-441-9 (EC index no) 022- 001-00-5	15 - 25	C; R34 R14	Skin Corr. 1B, H314 Eye Dam. 1, H318

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

#### SECTION 4: First aid measures **Description of first aid measures** 4.1. 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. 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 effects, both acute and delayed Symptoms/injuries : Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. Symptoms/injuries after inhalation : May cause drowsiness or dizziness. Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

Chronic symptoms : Suspected of damaging the unborn child.

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

Treat symptomatically.

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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 t	he substance or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: Heating may cause an explosion.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	res
6.1. Personal precautions, protecti	ve 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.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	
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	: Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container tightly closed. Store in original container. Store in a dry place. Store in a well-ventilated place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/person	al protection

#### 8.1. Control parameters

No additional information available

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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		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical a			
Physical state	: Liquid		
Colour	: Orange red to yellow.		
Odour	: No data available		
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		
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

Thermal decomposition generates : Corrosive vapours.

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Stable und	er normal conditions.		
	ossibility of hazardous reactio	ns	
No addition	nal information available		
10.4. Co	onditions to avoid		
Direct sunli	ight. Overheating. Open flame.		
10.5. In	compatible materials		
No addition	nal information available		
10.6. Ha	azardous decomposition prod	ucts	
Thermal de	ecomposition generates : Corros	ive vapours.	
SECTION	11: Toxicological information		
11.1. In	formation on toxicological effe	ects	
Acute toxic	ity	: Not classified	
Irritation		: Not classified	
Corrosivity		: Not classified	
Sensitisatio	on	: Not classified	
Repeated of	dose toxicity	: Not classified	
Carcinoger	nicity	: Not classified	
Mutagenici		: Not classified	
Toxicity for	reproduction	: Not classified	
SECTION	12: Ecological information		
	oxicity		
No addition	nal information available		

### 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 assessment

No additional information available

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12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 3286
UN-No. (IMDG)	: 3286
UN-No.(IATA)	: 3286
UN-No.(ADN)	: 3286
UN-No. (RID)	: 3286
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Proper Shipping Name (RID)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Transport document description (ADR)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3 (6.1, 8)
Danger labels (ADR)	: 3, 6.1, 8
IMDG	
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 3 (6.1, 8) : 3, 6.1, 8

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Transport hazard class(es) (IATA)	: 3 (6.1, 8)
Hazard labels (IATA)	: 3, 6.1, 8
ADN	
Transport hazard class(es) (ADN)	: 3 (6.1, 8)
Danger labels (ADN)	: 3, 6.1, 8
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RID	
Transport hazard class(es) (RID)	: 3 (6.1, 8)
Danger labels (RID)	: 3, 6.1, 8
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: FTC
Special provision (ADR)	: 274
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special	: TP2, TP27

provisions (ADR)

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Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S2, S22
Hazard identification number (Kemler No.)	: 368
Orange plates	368
	3286
Tunnel restriction code (ADR)	: D/E
EAC code	: •3WE
APP code	: A(fl)
- Transport by sea	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC99
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP13, TP27
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SG5, SG8
MFAG-No	: 131
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- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 5L
ERG code (IATA)	: 3CP
- Inland waterway transport	
Classification code (ADN)	: FTC
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: FTC
Special provision (RID)	: 274
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Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T11
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 368

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.

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 2, hazardous to water (Classification according to AwSV, Annex 1)
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
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

No additional information available

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**SECTION 16: Other information** 

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

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361d	Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
R11	Highly flammable
R14	Reacts violently with water
R34	Causes burns
R38	Irritating to skin
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R63	Possible risk of harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
С	Corrosive
F	Highly flammable
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