

CAS-No.: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification	n of the substance/mixture and of the company/undertaking
1.1. Product identifie	
Product form	: Mixture
	:
Product code	: 3570D
	ied uses of the substance or mixture and uses advised against
1.2.1. Relevant identifi	
Industrial/Professional use	e spec : Industrial For professional use only
Use of the substance/mixt	
1.2.2. Uses advised ag	jainst
No additional information a	available
1.3. Details of the su	Ipplier of the safety data sheet
LOBA CHEMIE PVT.LTD.	
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4.4 Emergeney telev	
1.4. Emergency telep Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
SECTION 2: Hazards ide	ntification
2.1. Classification of	f the substance or mixture
Classification according	to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral),	H302
Category 4	1502
Acute toxicity	H331
(inhalation:gas) Category 3	
Skin corrosion/irritation,	H315
Category 2 Serious eye damage/eye	H319
irritation, Category 2	
Carcinogenicity, Category 2	1001
Reproductive toxicity,	H361d
Category 2 Specific target organ	H336
toxicity — Single	
exposure, Category 3, Narcosis	

H372

Narcosis

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toxicity — Repeated exposure, Category 1

Full text of H statements : see section 16

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

2.2. Label elements	
Labelling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H331 - Toxic if inhaled. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H361d - Suspected of damaging the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	 P201 - Obtain special instructions before use. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients	

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CHLOROFORM AR	(CAS-No.) 67-66-3 (EC-No.) 200-663-8 (EC Index-No.) 602-006-00-4	95 - 99	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Repr. 2, H361d STOT SE 3, H336 STOT RE 1, H372
DITHIZONE Extra Pure	(CAS-No.) 60-10-6	0.005 - 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after 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/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Toxic if inhaled. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
Chronic symptoms	: Suspected carcinogen. Suspected of damaging the unborn child.
	nedical 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 extinguishing media containing water.
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 measure	S
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment Emergency procedures	: Use personal protective equipment as required.: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contai	nment and cleaning up
Methods for cleaning up	: Clean contaminated surfaces with an excess of water. Clean up immediately by sweeping or vacuum.
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 get in eyes, on skin, or on clothing.
Hygiene measures	: 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, inc	luding any incompatibilities
Storage conditions	: Store in original container. Store in a well-ventilated place. Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
7.3. Specific end use(s)	
No additional information available	
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 properties		
9.1. Information on basic physica	al and chemical properties	
9.1. Information on basic physical Physical state	al and chemical properties : Liquid	

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 add	itional information available
SECTIO	ON 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
Stable	under normal conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Air con	tact. Direct sunlight. Heat.
10.5.	Incompatible materials
No add	itional information available
10.6.	Hazardous decomposition products
No add	itional information available

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Inhalation:gas: Toxic if inhaled.

ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h

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 Suspected of causing cancer.
Reproductive toxicity STOT-single exposure	Suspected of damaging the unborn child.May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1.	Toxicity	
No add	ditional information available	

12.2.	Persistence and degradability		
No additional information available			

12.3.	Bioaccumulative potential		
CHLOROFORM AR (67-66-3)			
Log Po	w	1.97	
12.4. Mobility in soil			
No additional information available			

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 1888
UN-No. (IMDG)	: 1888
UN-No. (IATA)	: 1888
UN-No. (ADN)	: 1888
UN-No. (RID)	: 1888

Proper Shipping Name (ADR)	: CHLOROFORM
Proper Shipping Name (IMDG)	: CHLOROFORM
Proper Shipping Name (IATA)	: Chloroform
Proper Shipping Name (ADN)	: CHLOROFORM
Proper Shipping Name (RID)	: CHLOROFORM
Transport document description (ADR)	: UN 1888 CHLOROFORM, 6.1, III, (E)
Transport document description (IMDG)	: UN 1888 CHLOROFORM, 6.1, III
Transport document description (IATA)	: UN 1888 Chloroform, 6.1, III
Transport document description (ADN)	: UN 1888 CHLOROFORM, 6.1, III
Transport document description (RID)	: UN 1888 CHLOROFORM, 6.1, III

14.3. Transport hazard class(es)

ADR

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





IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG) : 6.1 : 6.1



ΙΑΤΑ

Transport hazard class(es) (IATA)	:	6.1
Hazard labels (IATA)	:	6.1



- Overland transport	
Classification code (ADR)	: T1
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V12

Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	
	60 1888
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
- Transport by sea	
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Colourless, volatile liquid.Boiling point: 61°C. Non-flammable. When involved in a fire, evolves extremely toxic fumes (phosgene). Toxic if swallowed, by skin contact or by inhalation. Anaesthetic.
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y680
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 680
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 680
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 6A
- Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: T1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container	: T7
instructions (RID) Portable tank and bulk container special	: TP2
provisions (RID)	
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
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Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W12
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW13, CW28, CW31
Colis express (express parcels) (RID)	-	CE8
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

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Germany		
Reference to AwSV	:	Water hazard class (WGK) 3, severe hazard 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)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	CHLOROFORM AR is listed
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

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SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3			
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Carc. 2	Carcinogenicity, Category 2			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Repr. 2	Reproductive toxicity, Category 2			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1			
STOT SE 3Specific target organ toxicity — Single exposure, Category 3, NarcosisSTOT SE 3Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritationH302Harmful if swallowed.H315Causes skin irritation.H319Causes serious eye irritation.H331Toxic if inhaled.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.H351Suspected of causing cancer.				
		H361d	Suspected of damaging the unborn child.	
		H372 Causes damage to organs through prolonged or repeated exposure.		

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