### CAS-No.: MSDS



### MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identificatio	on of the substance/mixture and of the company/undertaking			
1.1. Product identifie	er			
Product form	: Mixture			
Des durat as da				
Product code	: 01714			
1.2. Relevant identif	ied uses of the substance or mixture and uses advised against			
1.2.1. Relevant identif	ied uses			
Use of the substance/mixt	ture : Laboratory chemicals, Manufacture of substances			
1.2.2. Uses advised ag	nainst			
No additional information	-			
1.3. Details of the su	upplier of the safety data sheet			
Labogens Fine Chem Indu				
	India, Guru Vihar , Rahon Road,			
Ludhiana Pb. (141007)				
+91 931677775, +91 770 sales@labogens.com - v				
sales@labogens.com \	www.Labogens.com			
1.4. Emergency tele	phone number			
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)			
SECTION 2: Hazards ide	ntification			
	f the substance or mixture			
Classification according	) to Regulation (EC) No. 1272/2008 [CLP]			
Flammable liquids,	H225			
Category 2 Serious eye damage/eye H319				
irritation, Category 2	H226			
Specific target organ toxicity — Single	H336			
exposure, Category 3,				
Narcosis				
Full text of hazard classes and H-statements : see section 16				

### Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 2.2. **Label elements** Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P261 - Avoid breathing vapours, dust, fume, gas.

#### 2.3. **Other hazards**

No additional information available

SECTION 3: Composition/information on ingredients				
3.1.	Substances			
Not applicable				

#### **Mixtures** 3.2.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	>= 99	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Barium perchlorate	(CAS-No.) 13465-95-7 (EC-No.) 236-710-4 (EC Index-No.) 017-007-00-X	0.01 - 1	Ox. Sol. 1, H271 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### SECTION 4: First aid measures

SECTION 4: First and measures	
4.1. Description of first aid measure	95
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Get immediate medical advice/attention. Wash with plenty of water/
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present
-	and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from th	
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	es
6.1. Personal precautions, protectiv	e equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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.
Emergency procedures	
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.

Safety Data Sheet

according to Degulation (EC) No.	1007/2006 (DEACLI) with its smandmant Degulation (ELI) 201	1 = 10 20
according to Regulation (EC) NO.	. 1907/2006 (REACH) with its amendment Regulation (EU) 201	15/630

Precautions for safe handling	: Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapours.
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 stora	ge, including any incompatibilities
Technical measures	<ul> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.</li> </ul>
Storage conditions	: Keep container tightly closed. Keep in fireproof place.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	

### 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	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Colourless.
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

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	CH) with its amendment Regulation (EU) 2015/830 : No data available		
Decomposition temperature			
Flammability (solid, gas)	: Flammable liquid and vapour.		
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			
No additional information available			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous rea	actions		
No additional information available			
10.4. Conditions to avoid			
Open flame. Heat. Sparks.			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition	products		
May release flammable gases.			
SECTION 11: Toxicological information	tion		
<b>11.1.</b> Information on toxicologica Acute toxicity	: Not classified		
. lotte toxicity			
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation Respiratory or skin sensitisation	: Causes serious eye irritation. : Not classified		
Corm coll mutagonicity			

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UN-No. (IMDG)

www.Labogens.com

according to Regulation (EC) No.	1907/2006 (REACH) with its	amendment Regulation (EU) 2015/830

Carcinogenicity	: Not classified
Reproductive toxicity STOT-single exposure	<ul><li>Not classified</li><li>May cause drowsiness or dizziness.</li></ul>
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information						
12.1.	Toxicity					
		ation available				
No add	illional inform	ation available				

12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Results of PBT and vPvB assess	sment
No addi	tional information available	
12.6.	Other adverse effects	
No addi	tional information available	
SECTIO	ON 13: Disposal considerations	
40.4		
13.1.	Waste treatment methods	
	/Packaging disposal nendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
	al information	: Handle empty containers with care because residual vapours are flammable.
SECTIO	ON 14: Transport information	
In accor	dance with ADR / RID / IMDG / IAT	A / ADN
111		
14.1.	UN number	. 1210
UN-No.	(ADK)	: 1219

28/04/2016

6/11

: 1219

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UN-No. (IATA)	: 1219
UN-No. (ADN)	: 1219
UN-No. (RID)	: 1219

14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IMDG)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IATA)	: Isopropanol
Proper Shipping Name (ADN)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (RID)	: ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport document description (ADR)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II, (D/E)
Transport document description (IMDG)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II (12°C c.c.)
Transport document description (IATA)	: UN 1219 Isopropanol, 3, II
Transport document description (ADN)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II
Transport document description (RID)	: UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



#### IMDG

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



: 3

: 3

: 3

: 3 : 3

#### ΙΑΤΑ

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



#### ADN

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

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	3
RID	
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
14.4. Packing group	
Packing group (ADR)	
Packing group (IMDG)	
Packing group (IATA)	
Packing group (ADN)	
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	
14.6. Special precautions for user	
- Overland transport	· F1
- Overland transport Classification code (ADR)	: F1 : 601
- Overland transport Classification code (ADR) Special provisions (ADR)	: 601
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR)	: 601 : 1I
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR)	: 601 : 11 : E2
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR)	: 601 : 1I
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR)	: 601 : 1I : E2 : P001, IBC02, R001
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container	: 601 : 1I : E2 : P001, IBC02, R001 : MP19
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special	: 601 : 1I : E2 : P001, IBC02, R001 : MP19 : T4
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR)	: 601 : 1I : E2 : P001, IBC02, R001 : MP19 : T4 : TP1
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR)	: 601 : 1I : E2 : P001, IBC02, R001 : MP19 : T4 : TP1 : LGBF
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage	: 601 : 11 : E2 : P001, IBC02, R001 : MP19 : T4 : TP1 : LGBF : FL : 2
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation	<ul> <li>601</li> <li>11</li> <li>E2</li> <li>P001, IBC02, R001</li> <li>MP19</li> <li>T4</li> <li>TP1</li> <li>LGBF</li> <li>FL</li> <li>2</li> <li>S2, S20</li> </ul>
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR)	<ul> <li>601</li> <li>11</li> <li>E2</li> <li>P001, IBC02, R001</li> <li>MP19</li> <li>T4</li> <li>TP1</li> <li>LGBF</li> <li>FL</li> <li>2</li> <li>S2, S20</li> </ul>
- Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Operation (ADR) Hazard identification number (Kemler No.)	$\begin{array}{c} : \ 601 \\ : \ 11 \\ : \ E2 \\ : \ P001, \ IBC02, \ R001 \\ : \ MP19 \\ : \ T4 \\ : \ TP1 \\ : \ LGBF \\ : \ FL \\ : \ 2 \\ : \ 52, \ S20 \\ \end{array}$

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Transport by and	
- Transport by sea Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Flash point (IMDG)	: 12°C c.c.
Properties and observations (IMDG)	: Colourless, mobile liquid. Flashpoint: 12°C c.c. Explosive limits: 2% to 12% Miscible with water.
MFAG-No	: 129
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity	: 1L
(IATA)	
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A180
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 601
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
• • •	
- Rail transport	
Classification code (RID)	: F1
Special provisions (RID)	: 601
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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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

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	: None of the components are listed

#### 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 add	tional inform	mation a	available

**SECTION 16: Other information** 

Full text of H- and EUH-statements:

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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Ox. Sol. 1	Oxidising Solids, Category 1	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H225	Highly flammable liquid and vapour.	
H271	May cause fire or explosion; strong oxidiser.	
H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H336	May cause drowsiness or dizziness.	

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