CAS No: 107-92-6 MSDS

LABOGEN'S

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
	·	
EC index no	: 607-135-00-X	
EC no	: 203-532-3	
CAS No	: 107-92-6	
Product code	: 02388	
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	e safety data sheet	
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road,		
Ludhiana Pb. (141007)		
+91 9316777775, +91 7707855700		
sales@labogens.com - www.Laboge	ns.com	
1.4 Emergeney telephere sur		
1.4. Emergency telephone number		
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)	
SECTION 2: Hazards identification		
2.1. Classification of the substa	nce or mixture	

Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin corrosion/irritation, H314 Category 1B

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

Classification according to Directive 67/548/EEC or 1999/45/EC

C; R34 Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 Signal word (CLP) : Danger Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection 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 doctor

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: n-BUTYRIC ACID FOR SYNTHESIS
CAS No)	: 107-92-6
EC no		: 203-532-3
EC inde	x no	: 607-135-00-X

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

3.2.	Mixture
Not ap	plicable

SECTION 4: First aid measures			
4.1. Description of first aid measu	ires		
First-aid measures after inhalation		and keep at rest in a position comfortable N CENTER or doctor/physician.	for breathing.
First-aid measures after skin contact		ately all contaminated clothing. Rinse skin y y call a POISON CENTER or doctor/physic	
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 inc doctor/physician.	uce vomiting. Immediately call a POISON	CENTER or
4.2. Most important symptoms an	d effects, both acute and dela	yed	
Symptoms/injuries	: Causes severe skin burns and eye damage.		
Symptoms/injuries after eye contact	: Causes serious eye dama	ige.	
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4.3. Indication of any immediate medical attention and special treatment needed			
No additional information available			
SECTION 5: Firefighting measures			
	hing media	· Orden disside Deservates Franz Weter const	
Suitable extinguish	-	: Carbon dioxide. Dry powder. Foam. Water spray.	
Unsuitable extingu	sning media	: Do not use a heavy water stream.	
5.2. Special h	azards arising from the	substance or mixture	
No additional inform			
	r firefighters		
Protection during fi	refighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accid	lental release measures	6	
6.1. Personal	precautions, protective	equipment and emergency procedures	
	emergency personnel		
Emergency proced	• • • •	: Evacuate unnecessary personnel.	
Emergency proced	ules	· Evacuate unnecessary personnel.	
	gency responders		
Protective equipme		: Equip cleanup crew with proper protection.	
Emergency proced	ures	: Ventilate area.	
6.2. Environm	ental precautions		
Avoid release to th			
	s christennicht.		
6.3. Methods	and material for contain	nment and cleaning up	
Methods for cleaning	וg up	: Collect spillage. On land, sweep or shovel into suitable containers.	
	e to other sections		
No additional inform			
SECTION 7: Hand	ling and storage		
7.1. Precautio	ons for safe handling		
Precautions for saf		: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation	
		in process area to prevent formation of vapour.	
Hygiene measures		: Wash hands and other exposed areas with mild soap and water before eating,	
		drinking or smoking and when leaving work.	
7.2. Condition	s for safe storage, incl	uding any incompatibilities	
Storage conditions		: Store in a well-ventilated place. Keep container tightly closed.	
7.3. Specific e	end use(s)		
No additional inform	nation available		
SECTION 8: Expo	sure controls/personal	protection	
9.1 Control n	aramotors		
8.1. Control p	arameters		

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 prop	erties		
9.1. Information on basic physical a			
Physical state	: Liquid		
Colour	: Clear Colorless.		
Odour	: unpleasant.		
Odour threshold	: No data available		
pH	:3 at 10 g/l at 20 °C		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -63 °C		
Freezing point	: No data available		
Boiling point	: 162 °C		
Flash point	: 72 °C		
Auto-ignition temperature	: 440 °C		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: 0.57 hPa at 20 °C		
Relative vapour density at 20 °C	: 3.04		
Relative density	: No data available		
Density Solubility	: 0.964 g/cm³ : Water: Soluble in water		
Log Pow	: 0.79		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: 0.02 - 0.1 vol %		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
Thermal decomposition generates : Corros		12/05/2016	4/9
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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ons
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	lucts
Thermal decomposition generates : Corros	sive vapours.
SECTION 11: Toxicological information	
11.1. Information on toxicological eff	ects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Cariava ava damaga/imitatian	pH: 3 at 10 g/l at 20 °C
Serious eye damage/irritation	 Serious eye damage, category 1, implicit pH: 3 at 10 g/l at 20 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	. NUL GASSIICU
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Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity No additional information available

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential		
n-BUTYRIC ACID FOR SYNTHESIS (107-92-6)		
Log Pow	0.79	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB asses	ssment	
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		
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IA		
In accordance with ADR / RID / IMDG / IA	TATADN	
14.1. UN number		
UN-No. (ADR)	: 2820	
UN-No. (IMDG)	: 2820	
	: 2820	
UN-No.(ADN) UN-No. (RID)	: Not regulated : Not regulated	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: BUTYRIC ACID	
Proper Shipping Name (IMDG)	: BUTYRIC ACID	
Proper Shipping Name (IATA)	: BUTYRIC ACID	
Proper Shipping Name (ADN)	: Not regulated	
Proper Shipping Name (RID)	: Not regulated	
Transport document description (ADR)	: UN 2820 BUTYRIC ACID, 8, III, (E)	
Transport document description (IMDG)	: UN 2820 BUTYRIC ACID, 8, III	
Transport document description (IATA)	: UN 2820 BUTYRIC ACID, 8, III	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: 8	
Danger labels (ADR)	: 8	
	8	
INDO		
IMDG	. 0	
Transport hazard class(es) (IMDG)	: 8	

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Danger labels (IMDG)	: 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
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	
- Overland transport	
Classification code (ADR)	: C3
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hezerd identification number (Kemler No.)	. 80

Hazard identification number (Kemler No.) : 80

:

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Orange plates

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Tunnel restriction code (ADR)	: E
EAC code	: •2X
- Transport by sea	
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW1, H2
MFAG-No	: 153
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
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

No REACH Annex XVII restrictions

n-BUTYRIC ACID FOR SYNTHESIS is not on the REACH Candidate List n-BUTYRIC ACID FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

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Germany AwSV/VwVwS Annex reference 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	 Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 41) Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
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	itional inform	nation a	available

SECTION 16: Other information

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

Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage
R34	Causes burns
С	Corrosive

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