

MATERIAL SAFETY DATA SHEET

n-Butyric Acid

MSDS Name:	n-Butyric acid, 99+%
Synonyms:	n-Butanoic acid

Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
107-92-6	n-Butyric acid	99+%	203-532-3

Hazard Symbols:	C
	
Risk Phrases:	34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW	
<i>Causes burns.</i>	
Potential Health Effects	
Eye:	Contact with eyes may cause severe irritation, and possible eye burns.
Skin:	May cause severe irritation and possible burns.
Ingestion:	May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.
Inhalation:	May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation.
Chronic:	No information found.

Section 4 - First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician:	

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Combustible liquid.
Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Handling:	Wash thoroughly after handling. Use with adequate ventilation. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood. Discard contaminated shoes.
Storage:	Keep away from heat and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

CAS# 107-92-6:

Personal Protective Equipment

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:	Wear appropriate gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	APHA: 15 max
Odor:	Rancid unpleasant odor.
pH:	Not available
Vapor Pressure:	.84 mm Hg @20C
Viscosity:	1.6 mPas 20 deg C
Boiling Point:	162 - 165 deg C
Freezing/Melting Point:	-7 - -5 deg C
Autoignition Temperature:	425 deg C (797.00 deg F)
Flash Point:	69 deg C (156.20 deg F)
Explosion Limits: Lower:	2.00 vol %
Explosion Limits: Upper:	10.00 vol %
Decomposition Temperature:	Not available
Solubility in water:	Miscible
Specific Gravity/Density:	0.9590g/cm3
Molecular Formula:	CH3CH2CH2CO2H
Molecular Weight:	88.11

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, ignition sources.
Incompatibilities with Other Materials	Oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#:	CAS# 107-92-6: ES5425000
LD50/LC50:	RTECS: CAS# 107-92-6: Draize test, rabbit, skin: 20 mg/24H Moderate; Oral, rat: LD50 = 2 gm/kg; Skin, rabbit: LD50 = 530 uL/kg;
Carcinogenicity:	n-Butyric acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	BUTYRIC ACID	BUTYRIC ACID	BUTYRIC ACID
Hazard Class:	8	8	8

UN Number:	2820	2820	2820
Packing Group:	III	III	III
USA RQ: CAS# 107-92-6: 5000 lb final RQ; 2270 kg final RQ			

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

- R 34 Causes burns.

Safety Phrases:

- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 36 Wear suitable protective clothing
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

- CAS# 107-92-6: 1

Canada

US Federal

- CAS# 107-92-6 is listed on Canada's DSL List
- TSCA
- CAS# 107-92-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	July 24, 2015
Revision #0 Date	

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