



JAYSHREE AROMATICS PVT LTD

(100% EOU)

(Manufacturers of Aromatics & Fine Chemicals)

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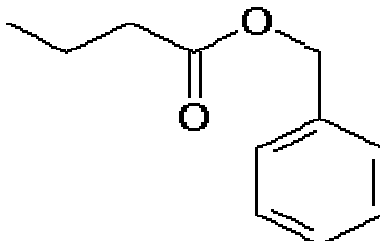
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MATERIAL SAFETY DATA SHEET

(Version-1.0/2011, Date of compilation: 01.06.2011)

BENZYL BUTYRATE



SECTION 1

IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

COMMERCIAL NAME	Benzyl Butyrate
CHEMICAL IDENTIFICATION	Butanoic acid, phenylmethyl ester; Butyric acid, benzyl ester
SYNONYMS	4-06-00-02266 (Beilstein Handbook Reference) AI3-06120 BRN 2047625 ,Benzyl butanoate ,Benzyl butyrate Benzyl butyrate (natural) ,Benzyl n-butanoate ,Benzyl n-butyrate Benzylester kyseliny maselne ,Benzylester kyseliny maselne [Czech] Butanoic acid, phenylmethyl ester ,Butyric acid, benzyl ester ,NSC 8073 Phenylmethyl butanoate ,Phenylmethyl butyrate ,UNII-84LONDE31F , Aldehyde C-19" (so-called).
PRODUCT CODE	B0008
HS NUMBER	2915600000
MOLECULAR FORMULA	$C_{10}H_{12}O_2$
REGISTRATION NO.	-

REACH PRE REGISTRATION NO.	05-2117374923-34-0000
CAS#	103-37-7
FEMA	2140
EINECS	203-105-1
IDENTIFIED USES OF THE PRODUCT	Fragrance ingredient and intermediate for chemical synthesis
MANUFACTURER	JAYSHREE AROMATICS PVT LTD 4705/1/3/4, G.I.D.C. Estate, Ankleshwar-393 002, Dist. Bharuch, Gujarat India Tel. : +91-2646-224211 Fax : +91-2646-252718 Email: info@jayshreeind.com
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SECTION 2

HAZARDS IDENTIFICATIONS

**CLASSIFICATION ACCORDING TO
Regulation (EC) No 1272/2008 [CLP]**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation. GHS09 environment

**CLASSIFICATION ACCORDING TO
Directive 67/548/EEC or
Directive 1999/45/EC**



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

**LABELLING ACCORDING TO
Regulation (EC) No 1272/2008**



GHS07

SIGNAL WORD

Warning

HAZARD STATEMEN

H315 Causes skin irritation .

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

PRECAUTIONARY STATEMENTS

P26 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
P362 Take off contaminated clothing and wash before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international

R. PHRASES

R 36/37/38 Irritating to eyes, respiratory system and skin.

OSHA HAZARDS

Non hazardous

HMIS CLASSIFICATION

Health Hazard: 0
Flammability: 1
Physical hazards: 0

NFPA Rating

Health Hazard: 0
Fire: 1
Reactivity Hazard: 0

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS**

SYNONYMS

Butanoic acid, phenylmethyl ester; Butyric acid, benzyl ester

PRODUCT IDENTIFICATION	IDENTIFIER NO.	IDENTIFICATION NAME	WEIGHT % CONTENT ppm	EC Number
Index number as listed in in CLP AnnexVI	-	Benzyl Butyrate	98.00% Min	203-105-1

SECTION 4**FIRST AID MEASURES**

EYE CONTACT

Rinse immediately with plenty of water for 10 minutes at least. Contact a physician if symptoms persist.

SKIN CONTACT

Wash thoroughly with soap and water; flush with plenty of water. Take off soiled clothes. Contact physician if symptoms persist.

INGESTION	Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash the mouth with water. Seek medical advice immediately.
INHALATION	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	Treat Symptomatically.
OTHERS	Take risk and safety phrases (section 15) into account.

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED	CO2, "alcohol" foam, dry chemicals or water spray.
NOT RECOMMENDED	Do not use direct water jet on burning material.
SPECIAL FIRE HAZARDS ARISING FROM THE CHEMICAL	<p>If spillage, issue warning. Eliminate all ignition sources. Ventilate the area. If spillage is large isolate the area. Deny access to the spill area to persons who have not been properly trained in spill management of hazardous/flammable liquid.</p> <p>-Vapours may explode if ignited in an enclosed area. Protect product from any kind of flame, maintain proper clearance when using heat devices, etc.</p> <p>-Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray.</p>
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS	<p>Do not flush spillage into sewer as a fire explosion hazard may result. Solid or straight hose stream will cause fire to spread if directed onto a burning spill or into an open container of burning liquid.</p> <p>-Wear self-contained breathing apparatus(SCBA) equipped with a full face piece and operated in a pressure-demand mode and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition.</p> <p>-In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.</p>

SECTION 6

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use individual protective equipment (waterproof boots, suitable protective clothing, and safety glasses). Wear self-contained breathing apparatus(SCBA) equipped with a full face piece. Prevent any contact with hot surfaces. Do not approach facing the wind.

ENVIRONMENT PRECAUTIONS

Keep away from drains, surface and groundwater and soil. Do not flush spillage into sewer as a fire explosion hazard may result.

METHODS FOR CONTAINING & CLEANING UP

Avoid open flames or other sources of ignition. Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material like sand or earth, or sweep up, and remove to an approved disposal container.

SECTION 7

HANDLING & STORAGE

PRECAUTIONS IN SAFE HANDLING

Use good manufacturing and industrial hygiene practices. Do not drink, eat or smoke while handling. Do not cut, puncture, or weld on or near the container. Wash thoroughly after handling this product. Avoid eye and skin contact. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area. Use spark-proof tools and equipment. Vapors may travel to distant ignition sources.

STORAGE CONDITIONS

Store in cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Keep air contact to a minimum.

FIRE PROTECTION

Keep away from ignition sources and naked flame.

STABILIZER

None

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION



OCCUPATIONAL EXPOSURE LIMIT VALUE(OELV)	LIMIT VALUE-SHORT TERM	
N/E = Not established.(No exposure limits)	ppm	mg/m ³

established for listed substances for listed country/region/organization.)		
	N/E	N/E

**RESPIRATORY PROTECTION/
ENGINEERING CONTROLS**

Avoid to breath directly on the product.Wear an approved respirator (e.g. an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus). Always provide effective general and, when necessary, local exhaust ventilation to draw fumes, vapors and/or dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limits outlined in the SDS.

SKIN & BODY PROTECTION

Avoid skin contact. Use chemical resistant gloves as needed. Use good laboratory/workplace procedures including personal protective clothing : labcoat, safety glasses and protective gloves.

EYE PROTECTION

Use safety glasses.

WORK / HYGIENIC PRACTICES

Wash hands with soap and water after handling.

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear Mobile Liquid
Color	Colorless
Odor	Light, sweet, floral odor, reminiscent of Apricot
Molecular Weight	178.23 g/mole
Flash Point (°C)	107° C
Flash Point (°F)	225.0° F
Boiling Point (°C)	240 °C
pH Value	N/E
Melting point/Melting range:	N/E
Self-Ignition temperature	N/E
Water/Oil Dist. Co-efficient	The product is more soluble in oil; soluble in hot water
Density @ 20°C	1.0080 g/cm ³
% Volatile by weight	100 %
Evaporation Rate	N/E

Vapour density	6.15
Vapour pressure at 20°C	N/E
Octanol / Water Partition Coefficient	N/E
Solubility in / Miscibility with organic solvents	Soluble in many organic solvents
Flammability (solid, gaseous):	Not applicable.
Oxidizing properties	Not oxidizing
Decomposition temperature	N/E
Danger of explosion	Product does not present an explosion hazard.

SECTION 10

STABILITY & REACTIVITY

STABILITY	Stable under normal conditions
REACTIVITY	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
DESCOMPOSITION	Carbon monoxide and unidentified organic compounds may be formed during combustion.
POSSIBILITY OF HAZARDOUS REACTIONS	Hazardous polymerization will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

INHALATION	Inhalation of concentrated vapor will irritate throat and lungs. Prolonged inhalation of vapors may cause serious health effects including shortness of breath, loss of coordination, and loss of consciousness. Breathing high concentrations of vapor may also cause anesthetic effects.
EYE CONTACT	Vapor is irritating to the eyes.
SKIN CONTACT	May cause skin irritation. A case of dermatitis as been recorded, although other tests have not generated sensitization reactions.
INGESTION	General intestinal irritation, vomiting & diarrhea are reported to result from ingestion.

ACUTE TOXICITY INFORMATION

LD50 Oral	Species	LD50 Oral	Species	LD50 Dermal	Species
N/E	Cat	2330 mg/Kg	Rat	>5 mg/Kg	Rabbit

OTHER TOXICITY INFORMATION

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

TERTOGENICITY

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated

no data available

no data available

EXPOSURE (Globally Harmonized System)**MUTAGENICITY**

no data available

SECTION 12

ECOLOGICAL INFORMATION

TOXICITY

Fish 96hrs LC 50	Species	Fish 96 hrs LC 50	Species	Invertebrates 48 hrs EC 50	Species
N/E	Zebra fish	N/E	Fresh water fish	N/E	Daphnia magna
Invertebrates 24 hrs EC 50	Species	Oryzias latipes 96 hrs LC50	Species	Algal 72hrs EC 50	Species
N/E	Daphnia magna	N/E	Anabaena inaequalis	N/E	-

BIOACCUMULATIVE POTENTIAL	No significant bioaccumulation
MOBILITY IN SOIL	Binding to soil will be moderate only.
OTHER ADVERSE EFFECT	No additional Information

SECTION 13

DISPOSAL CONSIDERATIONS

PBT/vPvB CRITERIA	It is neither a PBT nor a vPvB
WASTE	<p>In accordance with local environmental laws. Avoid disposing into drainage systems and into the environment.</p> <p>The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste. 2001/573/EC: Council Decision of 23 July 2001 amending the list of wastes contained in Decision 2000/532/EC. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.</p>

SECTION 14

TRANSPORT INFORMATION

	CLASS	PACKING GROUP	UN-No.
ROAD (ADR/RID)	Not regulated	Not regulated	Not regulated
IMDG	Not regulated	Not regulated	Not regulated
ICAO/ IATA	Not regulated	Not regulated	Not regulated
US DOT	Not regulated	Not regulated	Not regulated
TDG	Not regulated	Not regulated	Not regulated

MARINE POLLUTANT	N/A
HAZARDOUS SUBSTANCE(USA)	N/A
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	N/A
NOTES	No other information

SECTION 15

REGULATORY INFORMATION

HAZARDS Xi; Irritant ---

SYMBOLS Xi; Irritant ---



R. PHRASE R36/37/38: Irritating to eyes, respiratory system and skin.

S. PHRASES S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

REGULATORY STATUS

AICS(Australia) Yes

CITES (International) No

DSL(Canada) Yes

EINECS(Europe) Yes

ENCS(Japan) Yes

IECSC(CHINA) No

IECSC(South Korea) No

NDSL(Canada) No

NZIoC(New Zealand) Yes

OSHA No

PICCS(Phillipines) Yes

SVHC(REACH) No

TSCA(US) Yes

US DEA List I or II chemical(s) No

US FDA Yes

VOC-legislation(Swiss) No

OTHERS

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold(De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Immediate health hazard
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	No components are subject to Pennsylvania Right To Know
New Jersey Right to Know Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
California Prop. 65 Components	None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.
Chemical Inventory Notes	No additional Information
Notes	No additional Information

SECTION 16

OTHER INFORMATION

LEGENDS

ADR/RID	European dangerous goods transport road and rail regulations
AICS	Australian Inventory of Chemical Substances
AIHA	American Industrial Hygiene Association
CAS#	Chemical Abstract Service Registry Number
CITES	Convention on International Trade in Endangered Species
CLP	Classification, Labeling and Packaging
CMR	Carcinogen, Mutagen OR Reproductive Toxicant
DEA	Drug Enforcement Administration
DOT	Department of Transportation
DSL	Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
FDA	Food & Drugs Administration (US)
FEMA	Flavor and Extract Manufacturer's Associations

GRAS	Generally Recognized As Safe
HMIS	Hazardous Material Identification System
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IECSC	International, Esthetics, Cosmetics & Spa Conference
IMDG	International Maritime Dangerous Goods Code
NDSL	Non-Domestic Substances List
NFPA	National Fire Protection Association
NTP	National Toxicology Program
NZIoC	New Zealand Inventory of Chemicals
OELV	Occupational Exposure Limit Value
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative & Toxic Substance
PICCS	Philippine Inventory of Chemicals and Chemical Substances
REACH	Registration, Evaluation, Authorisation & Restriction of chemicals
SARA	Superfund Amendments and Reauthorization Act
SVHC	Substance of very high concern
TDG	Transport Development Group
TSCA	Toxic Substances Control Act
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent, Very Bioaccumulative

The information contained in the present MSDS, according to the system of Regulation (EC) No 1907/2006 (REACH), is based on our knowledge and experience at the moment of publishing it. This document tries to give information about the correct use, storage and transport. Bearing in mind that the use of this information and the conditions of use of the product are not under control.

DISCLAIMER

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