

1.

## Chemical Product and Company Identification

**VINATI ORGANICS LIMITED**

Plot No.A-20, MIDC Industrial Area,Lote Parashuram – 415722,  
Tal.Khed, Dist. Ratnagiri Maharashtra, INDIA

**Product Name &**

Generic Chemical Name **Normal Butyl Benzene**

Product use Chemical Intermediate  
 Classification Aromatic Hydrocarbon.  
 Synonyms 1-Phenyl Butane  
 Formula  $C_{10}H_{14}$   
 CAS No. 104-51-8  
 UN No. 2709

Shipping Name Petroleum Distillate  
 Hazardous Ingradient Isobutylbenzene  
 CAS No. 538-93-2

**02. COMPOSITION/INFORMATION ON INGRADIENTS**

Component	CAS No.	Amount	EINECS	SYM.	R-Phrases
Normal Butylbenzene	104-51-8	> 99.2% wt.	NA	NA	NA
Related Material	Various	< 0.8% wt.	NA	NA	NA

Up Dated on : 08 / 12 / 2005

**03. HAZARDOUS IDENTIFICATION/FIRE & EXPLOSION DATA**

Flammability	Yes
Combustible Liquid	Yes
Flammable Material	Yes
Auto-ignition Temperature	410°C
Flash Point	71°C
Explosion sensitivity to impact	No
Explosion sensitivity to static electricity	Yes
Explosive Material	Yes
Corrosive Material	No
Oxidizer	No
Pyrophoric Material	No
Organic Peroxide	No

<b>Health Hazard Data –</b>	
Routes of Entry	Inhalation, Ingestion.
<b>Immediate Health Effects –</b>	
Eye	Material may be irritating to eyes and may cause prolonged impairment of vision.
Skin	Material may be irritating to skin and prolonged contact may cause drying/defatting of skin. Symptoms may include pain, itching, dis-coloration, swelling & blistering.
Ingestion	Ingestion may cause irritating to mouth, throat & stomach. It may cause sluggish laboured respiration. It may cause injury to lungs. Symptoms may include nausea, vomiting, diarrhea.
Inhalation	Inhalation may cause upper airway irritacy, headache, nausea, drowsiness, disorientation, central nervous system effects, loss of consciousness.

#### **04. FIRST AID MEASURES**

Eye	Flush with water atleast for 15 minutes, get medical attention if irritation persists.
Skin	Wash with soap & water, discard contaminated clothing & shoes. Get medical attention immediately.
Ingestion	Do not induce vomitting. Give milk & water, obtain medical attention immediately. Not to give anything by mouth to an unconscious person.
Inhalation	Remove the victim to fresh air, give artificial respiration or oxygen if required. Get medical attention immediately if breathing difficulties is continued.

#### **05. FIRE FIGHTING MEASURES**

See Clause No.7 for proper handling & storage.

Fire	'B' Class
Fire Classification	Combustible Liquid
Flash Point	71°C
Auto Ignition Temperature	410°C
Flammability (Explosive) Limit (% by volume in air)	Lower - 0.8 Upper - 5.8
Extinguishing Media	Foam, Dry Chemical Powder, CO <sub>2</sub> , use water fog.
NFPA Ratings	Health - 01 Flammability - 02 Reactivity - 00
Protection of Fire Fighters Fire Fighting Instruction	For fires involving this material, do not enter any enclosed or confined fire space without proper

	protective equipments including self contained breathing apparatus.
Personal Protective Equipments	Use PVC or rubber gloves, aprons, gumboots, goggles, face shield, overall breathing apparatus if required.
Combustion Products	Combustion of this material forms Carbon Monoxide, Carbon dioxide and un-identified organic compounds.

## 06. ACCIDENTAL RELEASE MEASURES

Protective Measures	Eliminate source of ignition near the spill. Handling equipments must be bonded & grounded to prevent sparking.
Spill Management	Eliminate potential source of ignition, stop leak if possible. Absorb the spill content in sand, saw dust. Water disposal method. Let the spillage go to the chemical sewer. Flush small spillages with plenty of water.  Dispose the residue and flush properly.

## 07. HANDLING & STORAGE

Read and observe all the precautions on product label refer to product label for the proper use and handling of this material.

Precautionary Measures	Liquid evaporates forming air vapour ignitable mixture and may catch fire and burn with explosion.  Vapour spreads easily and may catch fire near source like light, welding equipments, electrical motors & switches.
Static Hazard	Electro static charges may accumulate and create a hazardous conditions during the handling of this material. To minimize this hazard, bonding & grounding is necessary and should be reviewed time to time.
General Storage & Information	Store the material in cool, clean, well ventillated fireproof storage areas.  Keep away from heat, sparks, open flame & incompatible materials. Protect containers against physical damage.  Do not pressurise the containers. Use leakproof containers.

## 08. EXPOSURE CONTROL/PERSONAL PROTECTION

General Consideration	Considering the hazardous potential of this material applicable exposure limits, job activities and other substances in work place.
Engineering Controls	If the engineering controls or work practices are not adequate to prevent the exposure to harmful level, the use of recommended protective equipments are advised to prevent the exposures.  Use in well ventilated area.
Personal Protective Equipments	Use of personal protective equipments such as safety glasses, chemical goggles, face shield, aprons, hand gloves, gumboots, impervious clothing, air purifying respirators, for adequate protection against eye, skin, respiratory track etc. are recommended.

## 09. PHYSICAL & CHEMICAL PROPERTIES

Appearance & Odour	Colourless transparent liquid with sweet odour.
pH	Neutral
Vapour Density (Air=1)	> 1.0
Vapour Pressure @ 38°C	2.52 mm Hg
Boiling Point	183°C
Solubility in water @ 30°C	Negligible
Specific Gravity (Water=1)	0.865
Percent Volatile	100% Volume

## 10. STABILITY & REACTIVITY

Chemical Stability	Stable under normal conditions
Condition to avoid	Heat, spark, fire & oxidising agents
Incompatibility with other materials	Oxygen & strong oxidising agents.
Hazardous Polymerisation	No
Hazardous decomposition products	Carbon Oxide

## 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD 50 / Not known
Acute Dermal Toxicity	LD 50 / Not known
Acute Inhalation Toxicity	LC 50 / Not known
Eye Irritation	May cause eye irritation.
Skin Irritation	May cause skin irritation.
TLV (ACGIH)	100 pm.
Permissible Exposure Limit	DNA
Odour Threshold LD	DNA
Flammability	2

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	The toxicity of the material to aquatic organism has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all water bodies.
Environmental Fate	DNA

## 13. DISPOSAL CONSIDERATION

Use material for its intended purpose or recycle if possible. Material if it must be discarded, may meet the requirement of hazardous waste as defined by local regulatory authorities. If this material is classified as hazardous waste, federal laws require disposal at the licensed hazardous waste disposal facility.

## 14. TRANSPORT INFORMATION

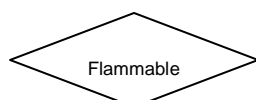
The description shown may not apply to all shipping situations. Consult appropriate dangerous goods regulations, for additional description requirement and mode specific or quantity specific shipping requirements.

Shipping Description: Stickers are pasted.

NBB



2.0



Normal Butylbenzene

IMPG : 3315

UN No. : 2709

## 15. REGULATORY INFORMATION

<b>SARA 311/312 Categories –</b>	
Immediate (Acute) Health effect	Yes
Delayed (Chronic) Health effect	No
Fire Hazard	Yes
Sudden release pressure hazard	No
Reactivity Hazard	No
<b>WHMIS Classification –</b>	
Class B, Division 3	Combustible liquids.
Class D, Division 2, Sub Division B	Toxic material.

## 16. OTHER INFORMATION

<b>NFPA Ratings –</b>	
Health	2
Flammability	2
Reactivity	0
Special	NA

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Vinati Organics Limited shall not be held liable/responsible for any damage resulting from handling or contact with above product.