# MATERIAL SAFETY DATA SHEET

(Rev-I-Jan-2019)

#### **N-Amyl Butyrate**

# Section 1: IDENTIFICATION OF THE SUBSTANCE AND OF COMPANY

Product Name	N-Amyl Butyrate
Chemical Name	Pentyl butyrate
CAS No.	540-18-1
EINECS No.	208-739-2
Usage	In flavors and fragrances, an ingredient in the manufacturing of mixtures. Not intended for final consumer.
Manufacturer	Breeze Intermediates Pvt. Ltd. Z-39, Dahej SEZ, Dahej, Ta. Vagra, Dist. Bharuch (Guj.) India Tel.: +91 9825107638 Email: <u>info@breezeipl.com</u> , <u>qc@breezeipl.com</u>
Emergency telephone no.	+91 9825107638, +91 8155088809

# Section 2: HAZARDS IDENTIFICATION

Classification as per EC No. 1272/2008	Not classified as hazardous according to regulation EC 1272/2008.	
OSHA Hazard	None found	
Label elements including	Signal Word: Warning Pictogram:	
precautionary statement	<ul> <li><u>Hazard statement(s):</u></li> <li>Combustible liquid. Causes skin irritation.</li> <li>Causes skin and eye irritation. Causes serious eye irritation.</li> <li><u>Precautionary statement(s):</u></li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.</li> </ul>	
Risk Phrases	R36/37/38 – Irritating to eyes, respiratory system and skin	
HMIS Classification	Health hazard: 2 Flammability: 2 Physical hazards: 0	
Potential Health Effects	Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. <u>Skin:</u> May be harmful if absorbed through skin. Causes skin irritation. <u>Eyes:</u> Causes eye irritation. <u>Ingestion:</u> Harmful if swallowed.	
Other Hazards	The product does not contain substances included in the Substances of Very High Concern list (> 0.1 $\%$ w/w).	

# Section 3: INFORMATON ON INGREDIENTS

Concentration of the constituent	95-100% (% wt/wt)
Chemical name	Pentyl butyrate
Chemical Entity	Branched chain primary aliphatic alcohols/aldehydes/acids/acetals/esters. No aromatic or hetero aromatic moiety as a component of ester/acetal.
Molecular Formula	$C_9H_{18}O_2$ (M.W.= 158.24 g/mol)
CAS No.	540-18-1
EC/EINECS No.	208-739-2
FEMA	2059

# Section 4: FIRST AID MEASURES

Consumption	If swallowed, rinse mouth with water (only if the person is conscious).	
(Ingestion)	Seek medical advice immidiately. Do not induce vomiting.	
Eye Exposure	First rinse with plenty of water for several minutes	
	(remove contact lenses if easily possible), then take to a doctor.	
Inhalation	If inhaled, remove person to fresh air. If not breathing give artificial respiration.	
	If breathing is difficult, give oxygen.	
Skin Exposure	Wash immediately affected area with soap and plenty of water.	
	Seek medical advice if irritation, pain, swelling, lacrimation or photophobia persists.	
Most important	Symptoms on inhalation: Choking, drowsiness, respiratory disruptions.	
symptoms and	Symptoms on eye contact: Irritation, reddening.	
effects, both	Symptoms on skin contact: Irritation, stinging.	
acute and delayed	Symptoms on ingestion: queasiness, stomach aches.	
Immediate	Not applicable.	
medical attention		
special treatment		
Others	Take Risk and Safety Phrases (section 15) into account	

# Section 5: FIRE-FIGHTING MEASURES

Extinguishing	Water spray, Alcohol-resistant foam, carbon dioxide, dry chemical powder or
Media	appropriate foam. For safety reasons do not use full water-jet.
Hazards arising	Not applicable.
from the substance	
Combustible Liquid	Keep away from source of heat, flame or spark. Cool endengered drums with water.
Advices for firefighters	In case of fire on the surrounding, follow the instructions: 1-Closed containers may build up pressure at elevated temperatures. 2-Avoid inhalation of generated fumes or vapors. Use apropriate respiratory equipment. 3-Do not allow the spillage of the fire extinguishing to sink into a drainage system or water area.

#### Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Handle the product using protective gloves resistant to the the chemicals exposed. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.
Environmental precautions	To avoid possible contamination of the environment. Do not discharge into any drains, surface waters or groundwaters
Methods and material for containment and cleaning up	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry- lime, sand, soda ash). Place in covered containers using non-sparking tools and transport outdoors. Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.
Reference to other sections	Refer to section 13 Disposal considerations

# Section 7: HANDLING AND STORAGE

Precautions for safe handling	Keep away from food, drink and animal feeding stuffs. When using do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.
Condition for Storage	Should be stored in tightly sealed and preferably full containers in a cool, well-ventilated, dry place, out of direct rays of the sun, Away from areas of high fire hazard, & should be periodically inspected. Incompatible materials should be isolated from each other.
Specific end uses	Not available

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	Declaration of substances is not required.
Exposure controls	Personal protection equipment:       Use personal protection equipment according to         Directive 89/686/EEC.       Eye/Face protection:       Chemical safety goggles are recommended. Wash contaminated         goggles before reuse.       Respiratory Protection:       Use personal breathing apparatus when deemed necessary.         Skin Protection:       Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.         Engineering Controls-Ventilation:       The areas where the product is handled and stored
	<ul> <li><u>Eye/Face protection:</u> Chemical safety goggles are recommended. Wash contaminated goggles before reuse.</li> <li><u>Respiratory Protection:</u> Use personal breathing apparatus when deemed necessary.</li> <li><u>Skin Protection:</u> Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.</li> </ul>

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Colorless liquid.
Odor	Fresh fruity, slightly buttery odor
pH value	No data available
Boiling point	187 °C @ 760 mm Hg.
Flash point (closed cup)	67.78 °C.
Ignition Temperature	No data available
Auto Inflammability	Not Determined
Explosive Property	Not Determined
Oxidizing Property	Not Determined
Vapour Pressure	0.569000 mm/Hg @ 25 °C
Vapour Density	5.4 (Air=1)
Solubility in Water	Insoluble
Specific Gravity	0.863 – 0.866 @ 20 °C.
Partition Coefficient	3.320 (Octanol/Water)

## Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under normal operational condition.
Reactivity	Heat, excessive heat, open flames and other sources of ignition.
	Strong oxidizing agents, strong reducing agents.
Incompatibility	Does not react with water. Avoid contact with strong oxidizing mineral acids,
	strong reducing agents.
Hazardous decomposition	Hazardous combustion or decomposition products:
Products	carbon oxides and other unidentified organic compound.

# Section 11: TOXOLOGICAL INFORMATION

Acute toxicity	Inhalation: No data available
Inhalation Toxicity (LD <sub>50</sub> )	No adverse effects due to inhalation are expected.
Skin corrosion/irritation	Causes skin irritation
Human Experience	NA
Serious eye damage/eye irritation	Causes serious eyes irritation
Respiratory or skin sensitization	Not a respiratory sensitizer. Not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	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.
Reproductive toxicity	Not expected to cause reproductive or developmental effects.
Specific target organ toxicity single exposure (GHS)	Not classified
Specific target organ toxicity repeated exposure (GHS)	No data available
Aspiration hazard	No data available
Potential health effects	<u>Inhalation</u> : May be harmful if inhaled. Causes respiratory tract irritation. <u>Ingestion</u> : Harmful if swallowed. <u>Skin</u> : May be harmful if absorbed through skin. Causes skin irritation. <u>Eyes</u> : Causes eye irritation.
Signs and Symptoms of Exposure	No data available

#### Section 12: ECOLOGICAL INFORMATION

General	Prevent contamination of soil, ground and surface waters.
	Do not discharge product unmonitored into the environment.
Acute aquatic Toxicity	Not determined
Persistence and degradability	No data available
Bioaccumulative potential	Not determined
Mobility in soil	No data available
PBT and vPvB assessment	Not determined
Other adverse effects	Do not allow the material to enter streams, sewers or other waterways.

# Section 13: DISPOSAL CONSIDERATION

Product Disposal	Dispose of according all federal, state, and local environmental regulations.		
	Contact a licensed professional waste disposal service to dispose of this material.		
Packaging	Don not re-use empty containers. Empty residue into a suitable disposal site.		
	Contaminated packaging should be disposed of as unused product.		

## Section 14: TRANSPORT INFORMATION

International Carriage of Dangero	us Goods by Road (ADR)				
UN No.	Not regulated as dangerous goods				
Proper Shipping Name					
Packing Group					
Class					
Tunnel restriction code					
Air Transport (ICAO/IATA)					
UN No.	Not regulated as dangerous goods				
Proper Shipping Name					
Class					
Packing Group					
Sea Transport (IMDG)					
UN No.	Not regulated as dangerous goods				
Proper Shipping Name					
Class					
Packing Group					
EmS					
Marine Pollutant	No				

#### Section 15: REGULATORY INFORMATION

SHE regulations/legislation	Substance(s) is (are) either included in EINECS, ELINCS, NPL inventories or				
specific for the substance	exempted				
Hazard Symbol					
Risk Phrases	R 36/37/38 - Irritating to eyes, respiratory system, skin				
Safety Phrases	<ul> <li>S 02 - Keep out of the reach of children.</li> <li>S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>S 36/37/39 - Wear suitable clothing, gloves and eye/face protection.</li> </ul>				
WGK Germany	2				

#### Section 16: OTHER INFORMATION

Hazardous materials identification system	Fire: 2	Health: 2	Reactivity: 0		
This material should be used for industrial purposes only.					

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