(Rev.I-Jan-2019) N-Propyl Butyrate

Section 1: IDENTIFICATION OF THE SUBSTANCE AND OF COMPANY

Product Name	N-Propyl Butyrate
Chemical Name	Propyl butanoate
CAS No.	105-66-8
EINECS No.	203-320-0
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: info@breezeipl.com
Emergency telephone no.	+91 9825107638, +91 9033143004

Section 2: HAZARDS IDENTIFICATION

Flammable liquids (Category 3), H226		
Skin irritation (Category 2), H315		
Eye irritation (Category 2), H319		
Specific target organ toxicity - single exposure (Category 3), H335		
No component of this product present at levels greater than or equal to 0.1% is		
on OSHA's list of regulated carcinogens.		
Signal: Warning		
Signal: Warning Symbol:		
Hazard statement: -		
H226 Flammable liquid and vapour.		
H315 Causes skin irritation.		
H319 Causes serious eye irritation.		
H335 May cause respiratory irritation.		
<u>Precautionary statement: -</u>		
P261 Avoid breathing vapours.		
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.		
Remove contact lenses, if present and easy to do. Continue rinsing.		
May be irritating to the skin and eyes		
Health hazard: 2 Flammability: 3 Physical hazards: 0		
Health hazard: 2 Fire: 3 Reactivity Hazard: 0		
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.		
Skin: May be harmful if absorbed through skin. Causes skin irritation.		
Eyes: Causes eye irritation.		
Ingestion: Harmful if swallowed.		
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	Propyl butanoate
Chemical Entity	primary alcohol/aldehyde/acid/ester/acetal derivatives
Molecular Formula	$C_7H_{14}O_2$ (M.W.= 130.18)
CAS No.	105-66-8
EC/EINECS No.	203-320-0
FEMA	2934

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	In case of fire on the surrounding, follow the instructions:	
firefighters	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	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-
containment and cleaning up	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 feedingstuffs. 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 use(s)	Not available

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	Declaration of substances is not required.	
Exposure controls	<u>Personal protection equipment:</u> Use personal protection equipment according to Directive 89/686/EEC.	
	<u>Eye/Face protection:</u> Chemical safety goggles are recommended. Wash contaminated goggles before reuse.	
	Respiratory Protection: Use personal breathing apparatus whenever 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 should be adequately ventilated.	

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless clear liquid
Odor	Characteristic, ethereal-fruity, pineapple odor
Boiling point	142 °C @ 760 mmHg
Flash point (closed cup)	38.89 °C
Ignition Temperature	No data available
Auto Inflammability	Not Determined
Explosive Property	Not Determined



Oxidizing Property	Not Determined
Vapour Pressure	5.445000 mm/Hg @ 25 °C
Vapour Density	4.4 (Air=1)
Solubility in Water	1620 mg/L @ 20 °C
Solubility in Alcohol	Soluble
Specific Gravity	0.870 – 0.879 @ 25 °C
Partition Coefficient (Octanol/Water)	2.314

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	LD50 Oral - Rat - 15000 mg/kg
	LD50 Dermal - Rabbit - 5729 mg/kg
Inhalation Toxicity (LD ₅₀)	No adverse effects due to inhalation are expected.
Skin corrosion/irritation	Causes skin irritation
Human Experience	NA
Serious eye damage/eye irritation	Causes serious eye irritation
Respiratory or skin sensitization	Not a respiratory sensitizer.
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels ≥0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA Specifically Regulated Substances: Not listed.
Reproductive toxicity	No data available
Specific target organ toxicity single exposure (GHS)	No data available
Specific target organ toxicity repeated exposure (GHS)	No data available
Aspiration hazard	No aspiration hazard
Potential health effects	Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Ingestion: Harmful if swallowed. Skin: May be harmful if absorbed through skin. Causes skin irritation. Eyes: Causes eye irritation.
Signs and Symptoms of Exposure	No data available
Additional Information	RTECS: ET6200000



Section 12: ECOLOGICAL INFORMATION

General	Prevent contamination of soil, ground and surface waters.	
	Do not discharge product unmonitored into the environment.	
Acute aquatic Toxicity	Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 56 - 64 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 318 mg/l - 24 h	
Persistence and degradability	Readily biodegradable.	
Bioaccumulative potential	Does not bioaccumulate.	
Mobility in soil	No data available	
PBT and vPvB assessment	Not determined. Not listed on EC's PBT substances list.	
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 Danger	rous Goods by Road (ADR)			
UN No.	3272			
Proper Shipping Name	ESTERS N.O.S (PROPYL BUTYRATE)			
Packing Group	II			
Class	3			
Tunnel restriction code				
Label	3			
Air Transport (ICAO/IATA)				
UN No.	3272			
Proper Shipping Name	ESTERS N.O.S (PROPYL BUTYRATE)			
Class	3			
Packing Group	II			
Sea Transport (IMDG)				
UN No.	3272			
Proper Shipping Name	ESTERS N.O.S (PROPYL BUTYRATE)			
Class	3			
Packing Group	II.			
EmS				
Marine Pollutant	No			
DOT (US) Non-Bulk	·			
NA Number	Not regulated			
Packing Group & Class	11-3			
Proper Shipping Name	n-PROPYL BUTYRATE			



Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance	Substance(s) is (are) either included in EINECS, ELINCS, NPL inventories or exempted
Hazard Symbol	Xi- Irritant
Risk Phrases	R 10 - Flammable.
	R 36/37/38 - Irritating to eyes, respiratory system, and skin.
Safety Phrases	S 02 - Keep out of the reach of children.
	S 16 - Keep away from sources of ignition - No Smoking.
	S 24/25 - Avoid contact with skin and eyes.
	S 26 – incase of contact with eyes, rinse immediately with plenty of water and seek
	medical advice
	S 36 – wear suitable protective clothing.
WGK Germany	2
Chemical safety	Not available
assessment	

Section 16: OTHER INFORMATION

Hazardous materials identification system	Fire: 3	Health: 2	Reactivity: 0	Personal Protection: B		
This material should be used for industrial purposes only.						

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