

**MSDS: LPG** 

## **MATERIAL SAFETY DATA SHEET**

1. CHEMICAL IDENT	TTY					
CHEMICAL NAME : Liquefied petroleum gas						
			propane			
CHEMICAL CLASSIFICATION: Mixture of butane and propane SYNONYMES:						
TRADE NAME: Liquefied p	etroleum gas					
FORMULA: Mixture of C <sub>3</sub> H <sub>2</sub>		C.A.S. NO.				
		HAZCHEM CODE: 2WE				
REGULATED IDENTIFICAT	REGULATED IDENTIFICATION : NA					
SHIPPING NAME CODES/ L	ABLE : Liquef	ied petrole	um gas			
HAZARDOUS WASTE I.D. N	O. : NA					
HAZARDOUS INGREI	DIENTS:	C.A.S. No. :				
1. Propane		106-97-8				
2. Butane		74-98-6				
3. Pentane		109-66-0	109-66-0			
2. PHYSICAL AND CH	HEMICAL DA	TA				
<b>BOILING POINT (°C): &gt;-40</b>	PHYSICL	STATE:	APPEARANCE: Colorless			
	Liquefied gas					
MELTING / FREEZING		PRESSURE	Odor: Odorless Gas.			
POINT(°C): N/A	@ 35 °C	U				
	1311.56 mm hg @-20					
VAPOUR DENSITY (AIR= 1	Dg F	SOLUBII	ITY IN H <sub>2</sub> O @ 30 °C : Slight at			
VAFOUR DENSITT (AIK= 1): 1.5		30 Deg. CG				
SPECIFIC GRAVITY (H2O=1): 0.51 to PH: NA						
0.58 at 50 Deg. CG	,					
3. FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY: Yes	LEL: 1.8 %		UEL: 12.8 %			
TDG FLAMMABILITY:	FLASH POINT (°C): -76		AUTO IGNITION			



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2.1	to -156 Deg. FH		TEMP(°C): 320 to 405 deg C	
EXPLOSION SENSITIVITY TO IMPACT: NA	EXPLOSION SENSITIVITY TO STATIC ELECTRICITY: NA		HAZARDOUS COMBUSTION PRODUCTS Carbon monoxide and carbon dioxide	
HAZARDOUS POLIMERISATION : NA	EXPLOSIVE MATERIAL: NA		CORROSSIVE MATERIAL: NA	
FLAMMABLE MATERIAL: NA PYROPHORIC: NA	OXIDISER :NA  ORGANIC F		OTHERS :NA PEROXIDE : NA	

## **4.** REACTIVITY DATA

**CHEMICAL STABILITY: Stable** 

**INCOMPATABILITY** 

WITH OTHER MATERIAL: With oxidizing materials

**REACTIVITY: Yes** 

## HAZARDOUS REACTION PRODUCTS: Carbon dioxide, Carbon monoxide

## **5.** HEALTH HAZARD DATA

ROUTES OF ENTRY: Skin Absorption: NA. Skin Contact: Yes (liquid) Eye Contact: Yes

Inhalation: Acute: Yes Chronic: NA. Ingestion: No

**EFFECTS OF** 

EXPOSURE / SYMPTOMS: Inhalation can cause headache, disorientation, dizziness, drowsiness and possibly

Unconsciousness at concentrations that cause oxygen deficiency and asphyxiation.

Rapidly expanding gas or vaporized liquid

may cause frostbite to skin and eyes

EMERGENCY TREATMENT: Flush eyes and skin with plenty of water and get medical aid.

TLV (ACGIH): 100 PPM, 1800 mg/m3		STEL: PPM mg/m3			
PERMISSIBLE		ODOUR THRESHOLD			
EXPOSURE LIMITS		LD50: 5000ppm to 20000 ppm			
LD 50:	PPM mg/m3				
NFPA	HELATH: NA	FLAMABILITY		STABILITY:	SPECIAL: NA
HAZARD		: Yes		Stable	



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RATING					
<b>6.</b> PREVENTIVI	<b>6.</b> PREVENTIVE MEASURES				
PERSONAL PROTEC	TIVE EQUIPMENTS: Respiratory protective equipment				
required.					
Eye & Face : Safety g	oggles.				
Hand & Arm : Hand gloves (PVC synthetic only)					
Other clothing and e	Other clothing and equipment : Gum boots, PVC apron.				
HANDLING AND STO	DRAGE PRECAUTION : Store the container in a cool, dry and				
well ventilated speci	ified place, away from heat, spark and flame.				
7. EMERGENCY AND FIRST- AID MESURES					
FIRE	FIRE EXTINGUISHING MEDIA : Dry chemical powder,				
	carbon dioxide and water spray.				
	SPECIAL PROCEDURE : NA				
	UNUSUAL HAZARDS : Air vapour mixture highly				
	explosive.				
EXPOSURE	FIRST AID MEASURES: Skin: If freeze burn occurs, gently				
	bathe affected area in warm water (38 – 43) deg.C. Do not rub. Get				
	medical attention.				
	<b>Eye</b> : Immediately flush with large amounts of luke warm water for				
	15 minutes, lifting upper and lower lids at				
	intervals. Seek medical attention if irritation persists.				
	<b>Inhalation</b> : Remove to fresh air. Give oxygen, artificial respiration, or CPR if needed. Seek medical attention.				
	Ingestion: Usually no effect by this route.				
	ANTIDOTES / DOSAGES :NA				
SPILLS	STEPS TO BE TAKEN :				
	Do not enter in the gas area without protective wears.				
	Get the area evacuated.				
	Stop flow of gas if without risk.				
	Spray water to keep the container cool				
	WASTE DISPOSAL METHOD : Collect the spillage & wash				
	the effected area with plenty of water. Allow gas to burn				

under control