

IPSA BIP-42

EMERGENCY TELEPHONE NUMBER: (54) 3489-400-200 Campana Plant
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PRODUCT NAME: IPSA BIP-42

SECTION I PRODUCT IDENTIFICATION**CHEMICAL FAMILY :** PARAFFIN SERIES HYDROCARBON
CHEMICAL NAME: PROPANE(16 WGT%)/ISOBUTANE(28 WGT %)/n-BUTANE(56 WGT %)
CHEMICAL FORMULA: C3H8 AND C4H10

SECTION II HAZARDOUS COMPONENTS

INGREDIENT	PERCENT	TLV (PPM)
LIQUEFIED PETROLEUM GAS	100	1000

*** PHYSICAL HAZARD DUE TO FLAMMABLE NATURE. FLAMMABLE WHEN COMBINED WITH AIR. ***

SECTION III PHYSICAL DATA

BOILING RANGE: -2.5 TO +31.1 F	SPECIFIC GRAVITY (H₂O = 1.00) : 0.557
VAPOR PRESSURE @ 70 DEG F: 42 PSIG	PERCENT VOLATILE BY VOLUME : 100%
VAPOR DENSITY (AIR = 1.00): 1.898	SOLUBILITY IN WATER @ 70 °F: 0.008%
EVAPORATION RATE: > 1 (ETHYL ETHER = 1.0)	
APPEARANCE & ODOR: CLEAR, COLORLESS LIQUEFIED GAS WITH VERY SWEET PETROLEUM ODOR.	

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD) :	-156 F / -104 C (ESTIMATED)
LOWER EXPLOSION LIMIT:	1.8% (VOL.) GAS IN AIR
UPPER EXPLOSION LIMIT:	9.5% (VOL.) GAS IN AIR
EXTINGUISHING MEDIA :	DRY CHEMICAL EXTINGUISHER (B-C), WATER

SPECIAL FIRE FIGHTING PROCEDURES

STOP THE RELEASE OF MATERIALS IF POSSIBLE. COOL THE VAPOR SPACE OF THE STORAGE CONTAINER WITH WATER SPRAY. AVOID ACCUMULATION OF UNBURNED MATERIALS. REMOVE PERSONNEL IN GENERAL AREA. OBSERVE MAXIMUM ISOLATION WHEN EXTINGUISHING FIRE. EXPANSION OF LIQUID AND CHANGE OF STATE FROM LIQUID TO VAPOR WILL ALLOW COMBUSTIBLE MIXTURE TO ENCOMPASS A LARGE AREA.

UNUSUAL FIRE AND EXPLOSION HAZARDS

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION SYSTEMS AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

SECTION V HEALTH HAZARD DATA**EFFECTS OF OVEREXPOSURE****INGESTION-** ASPIRATION HAZARD!**INHALATION-** INHALATION OF VAPOR MAY PRODUCE ANESTHETIC EFFECTS AND FEELING OF EUPHORIA. PROLONGED OVEREXPOSURE CAN CAUSE RAPID BREATHING, HEADACHE, DIZZINESS, NARCOSIS, UNCONSCIOUSNESS, AND DEATH FROM ASPHYXIATION, DEPENDING ON CONCENTRATION AND TIME OF EXPOSURE.**SKIN CONTACT-** CONTACT WITH EVAPORATING LIQUID CAN CAUSE FROSTBITE.**EYE CONTACT-** LIQUID CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION, AND POSSIBLE FREEZE BURNS.

EMERGENCY FIRST AID PROCEDURES

INGESTION- DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN IMMEDIATELY.

INHALATION- REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, RESTORE BREATHING AT ONCE. ADMINISTER OXYGEN AND GET MEDICAL HELP.

SKIN CONTACT- FOR LIQUID CONTACT, WARM AREAS GRADUALLY AND GET MEDICAL ATTENTION IF THERE IS EVIDENCE OF TISSUE DAMAGE. FLUSH AREA WITH PLENTY OF WATER.

EYE CONTACT- FOR LIQUID CONTACT, IRRIGATE WITH RUNNING WATER FOR MINIMUM OF 15 MINUTES. CONSULT PHYSICIAN IMMEDIATELY IF FROSTBITE OCCURS.

SECTION VI REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: CAN NOT OCCUR

INCOMPATIBILITY (MATERIALS TO AVOID): NONE.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, VOLATILE HYDROCARBON VAPORS
CONDITIONS TO AVOID: HIGH HEAT, SPARK, AND OPEN FLAMES

SECTION VII SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

AVOID SOURCES OF IGNITION - VENTILATE AREA. USE WATER FOG TO EVAPORATE OR VENTILATE. PROTECT BODY AGAINST CONTACT WITH LIQUID. IF CONFINED SPACE - USE SELF CONTAINED BREATHING APPARATUS. CONSULT LOCAL FIRE AUTHORITIES.

WASTE DISPOSAL

(1) MECHANICAL RECOVERY

(2) FLARE-OFF AT SAFE LOCATION (VAPORS)

(3) EXHAUST TO ATMOSPHERE IN SAFE LOCATION (NO OPEN FLAMES)

*** COMPLY WITH ALL STATE AND LOCAL REGULATIONS ***

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

PROTECTIVE GLOVES: IMPERVIOUS, INSULATED GLOVES RECOMMENDED

EYE PROTECTION: FACESHIELD OR GOGGLES RECOMMENDED

OTHER: IMPERVIOUS CLOTHING FOR PROLONGED OR REPEATED CONTACT

VENTILATION

MECHANICAL: PROVIDE AS NEEDED TO KEEP CONCENTRATION IN AIR BELOW TLV AND LEL

LOCAL EXHAUST: CONTINUOUS VENTILATION RECOMMENDED

SPECIAL: EXPLOSION PROOF FANS AND MOTORS

SECTION IX SPECIAL PRECAUTIONS

COMPLY WITH STATE AND LOCAL REGULATIONS COVERING LIQUEFIED PETROLEUM GASES.

COMPLY WITH NFPA PAMPHLET #58. STORE SMALL CONTAINERS IN WELL-VENTILATED AREAS, AWAY FROM HEAT OR SOURCES OF IGNITION. PROHIBIT SMOKING IN AREAS OF STORAGE OR USE.

SECTION X MISCELLANEOUS INFORMATION**TRANSPORT INFORMATION**

PETROLEUM GASES, LIQUEFIED

2.1, FLAMMABLE GAS, UN1075

LABELED / PLACARDED FLAMMABLE GAS

NPCA - HMIS RATINGS

HEALTH 1

FLAMMABILITY 4

REACTIVITY 0

PERSONAL PROTECTION - (PERSONAL PROTECTION INFORMATION TO BE SUPPLIED BY THE USER)