

**SITE DATA:**

Location: TLAJOMULCO DE ZUÑIGA, MEXICO
Building Air Exchanges Per Hour: 0.48 (unsheltered single storied)
Time: July 22, 2022 1252 hours ST (using computer's clock)

CHEMICAL DATA:

Chemical Name:HYDROCARBONS MIXTURE
Molecular Weight: 101.20 g/mol
Default LOC-1: 1000 ppm Default LOC-2: 500 ppm
AEGL-1 (60 min): 300 ppm AEGL-2 (60 min): 500 ppm AEGL-3 (60 min): 1000
ppm
IDLH: 1000 ppm LEL: 8100 ppm UEL: 51843 ppm
Ambient Boiling Point: 31.0° C
Vapor Pressure at Ambient Temperature: 0.64 atm
Ambient Saturation Concentration: 770,997 ppm or 77.1%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 2.21 meters/second from wsw at 3 meters
Ground Roughness: open country Cloud Cover: 5 tenths
Air Temperature: 21° C Stability Class: B
No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:

BLEVE of flammable liquid in vertical cylindrical tank
Tank Diameter: 2.4 meters Tank Length: 5.4 meters
Tank Volume: 24,429 liters
Tank contains liquid
Internal Storage Temperature: 21° C
Chemical Mass in Tank: 10,410 kilograms
Tank is 80% full
Percentage of Tank Mass in Fireball: 90%
Fireball Diameter: 122 meters Burn Duration: 9 seconds
Pool Fire Diameter: 22 meters Burn Duration: 1764 minutes
Flame Length: 0 meters