

**SITE DATA:**

Location: TLAJOMULCO DE ZUÑIGA, MEXICO  
Building Air Exchanges Per Hour: 0.47 (unsheltered single storied)  
Time: July 21, 2022 1921 hours ST (using computer's clock)

**CHEMICAL DATA:**

Chemical Name: METHANE  
CAS Number: 74-82-8 Molecular Weight: 16.04 g/mol  
PAC-1: 65000 ppm PAC-2: 230000 ppm PAC-3: 400000 ppm  
LEL: 50000 ppm UEL: 150000 ppm  
Ambient Boiling Point: -163.8° C  
Vapor Pressure at Ambient Temperature: greater than 1 atm  
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

**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: E  
No Inversion Height Relative Humidity: 50%

**SOURCE STRENGTH:**

Leak from hole in spherical tank  
Flammable chemical escaping from tank (not burning)  
Tank Diameter: 16.9 meters Tank Volume: 2,527 cubic meters  
Tank contains gas only Internal Temperature: 21° C  
Chemical Mass in Tank: 2430 kilograms  
Circular Opening Diameter: 20 centimeters  
Release Duration: 6 minutes  
Max Average Sustained Release Rate: 265 kilograms/min  
(averaged over a minute or more)  
Total Amount Released: 891 kilograms