



Time: April 3, 2012 1058 hours ST (user specified)

Chemical Name: METHANE

Wind: 2.8 meters/second from 315° true at 10 meters

THREAT ZONE:

Model Run: Gaussian

Red : 25 meters --- (30000 ppm)

Note: Threat zone was not drawn because effects of near-field patchiness make dispersion predictions less reliable for short distances.

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**SITE DATA:**

Location: MORA, PORTUGAL
Building Air Exchanges Per Hour: 0.30 (unsheltered double storied)
Time: April 3, 2012 1058 hours ST (user specified)

CHEMICAL DATA:

Chemical Name: METHANE **Molecular Weight:** 16.04 g/mol
PAC-1: 2900 ppm **PAC-2:** 2900 ppm **PAC-3:** 17000 ppm
LEL: 50000 ppm **UEL:** 150000 ppm
Ambient Boiling Point: -161.6° 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: 2.8 meters/second from 315° true at 10 meters
Ground Roughness: open country **Cloud Cover:** 5 tenths
Air Temperature: 22° C **Stability Class:** B
No Inversion Height **Relative Humidity:** 25%

SOURCE STRENGTH:

Flammable gas escaping from pipe (not burning)
Pipe Diameter: 9 centimeters **Pipe Length:** 40 meters
Unbroken end of the pipe is connected to an infinite source
Pipe Roughness: smooth **Hole Area:** 63.6 sq cm
Pipe Press: 4 atmospheres **Pipe Temperature:** 10° C
Release Duration: ALOHA limited the duration to 1 hour
Max Average Sustained Release Rate: 110 kilograms/min
(averaged over a minute or more)
Total Amount Released: 6,578 kilograms

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