SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Burning Puddle / Pool Fire
  Puddle Area: 21 square meters
  Average Puddle Depth: 2 centimeters
  Initial Puddle Temperature: -161.5° C
  Flame Length: 7 meters
  Burn Duration: 1 minute
  Burn Rate: 295 kilograms/min
  Total Amount Burned: 295 kilograms

THREAT ZONE:
  Threat Modeled: Thermal radiation from pool fire
  Red : 7 meters --- (12.5 kW/(sq m))
  Orange: 11 meters --- (5.0 kW/(sq m))
  Yellow: 13 meters --- (3 kW/(sq m))

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Direct Source: 700 cubic meters/hr Source Height: 0
  Source State: Evaporating Liquid
  Source Temperature: -161.5° C
  Release Duration: 10 minutes
  Total Amount Released: 116 cubic meters
  Note: This chemical may flash boil and/or result in two phase flow.
    Use both dispersion modules to investigate its potential behavior.
THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red : 7 meters --- (50000 ppm = LEL)
  Orange: 11 meters --- (25000 ppm = 50% LEL)

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas is burning as it escapes from pipe
  Pipe Diameter: 8 inches
  Pipe Roughness: smooth Hole Area: 1 sq in
  Max Flame Length: 12 meters
  Burn Duration: 1 minute
  Max Burn Rate: 1 kilograms/sec

THREAT ZONE:
  Threat Modeled: Thermal radiation from jet fire
  Red : 12 meters --- (12.5 kW/(sq m))
  Orange: 19 meters --- (5.0 kW/(sq m))
  Yellow: 21 meters --- (3 kW/(sq m))

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Direct Source: 700 cubic meters/hr Source Height: 0
  Source State: Evaporating Liquid
  Source Temperature: -161.5° C
  Release Duration: 10 minutes
  Total Amount Released: 116 cubic meters
  Note: This chemical may flash boil and/or result in two phase flow.
    Use both dispersion modules to investigate its potential behavior.
THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red : 5 meters --- (50000 ppm = LEL)
  Orange: 7 meters --- (25000 ppm = 50% LEL)

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas is burning as it escapes from pipe
  Pipe Diameter: 8 inches
  Pipe Roughness: smooth Hole Area: 2 sq in
  Max Flame Length: 12 meters
  Burn Duration: 1 minute
  Max Burn Rate: 2 kilograms/sec
THREAT ZONE:
  Threat Modeled: Thermal radiation from jet fire
  Red : 18 meters --- (12.5 kW/(sq m))
  Orange: 21 meters --- (5.0 kW/(sq m))
  Yellow: 29 meters --- (3 kW/(sq m))

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Burning Puddle / Pool Fire
  Puddle Area: 43 square meters
  Average Puddle Depth: 2.3 centimeters
  Initial Puddle Temperature: -161.5° C
  Flame Length: 19 meters
  Burn Duration: 1 minute
  Burn Rate: 335 kilograms/min
  Total Amount Burned: 335 kilograms
THREAT ZONE:
  Threat Modeled: Thermal radiation from pool fire
  Red : 19 meters --- (12.5 kW/(sq m))
  Orange: 24 meters --- (5.0 kW/(sq m))
  Yellow: 31 meters --- (3 kW/(sq m))

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Direct Source: 700 cubic meters/hr Source Height: 0
  Source State: Evaporating Liquid
  Source Temperature: -161.5° C
  Release Duration: 10 minutes
  Total Amount Released: 116 cubic meters
  Note: This chemical may flash boil and/or result in two phase flow.
    Use both dispersion modules to investigate its potential behavior.
THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red : 7 meters --- (50000 ppm = LEL)
  Orange: 11 meters --- (25000 ppm = 50% LEL)

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Direct Source: 700 cubic meters/hr Source Height: 0
  Source State: Evaporating Liquid
  Source Temperature: -161.5° C
  Release Duration: 10 minutes
  Total Amount Released: 211 cubic meters
  Note: This chemical may flash boil and/or result in two phase flow.
    Use both dispersion modules to investigate its potential behavior.
THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red : 16 meters --- (50000 ppm = LEL)
  Orange: 25 meters --- (25000 ppm = 50% LEL)

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas is burning as it escapes from pipe
  Pipe Diameter: 8 inches Pressure 3 barg
  Pipe Roughness: smooth Hole Area: 1 sq in
  Max Flame Length: 6 meters
  Burn Duration: 1 minute
  Max Burn Rate: 1 kilograms/sec
THREAT ZONE:
  Threat Modeled: Thermal radiation from jet fire
  Red : 6 meters --- (12.5 kW/(sq m))
  Orange: 8 meters --- (5.0 kW/(sq m))
  Yellow: 11 meters --- (3 kW/(sq m))

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Burning Puddle / Pool Fire
  Puddle Area: 2.1 square meters
  Average Puddle Depth: 0.4 centimeters
  Initial Puddle Temperature: -161.5° C
  Flame Length: puddle area
  Burn Duration: less than 1 minute
  Total Amount Burned: 75 kilograms
THREAT ZONE:
  Threat Modeled: Thermal radiation from pool fire
  Red : --- (12.5 kW/(sq m))
  Orange: 4 meters --- (5.0 kW/(sq m))
  Yellow: 7 meters --- (3 kW/(sq m))

SITE DATA:
  Location: BERGEGGI, SAVONA, ITALY
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)

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: -161.5° 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: 3 meters/second from 0° true at 3 meters
  Ground Roughness: open country Cloud Cover: 5 tenths
  Air Temperature: 20° C Stability Class: D
  No Inversion Height Relative Humidity: 50%

SOURCE STRENGTH:
  Direct Source: 700 cubic meters/hr Source Height: 0
  Source State: Evaporating Liquid
  Source Temperature: -161.5° C
  Release Duration: 10 minutes
  Total Amount Released: 118 cubic meters
  Note: This chemical may flash boil and/or result in two phase flow.
    Use both dispersion modules to investigate its potential behavior.
THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red : 9 meters --- (50000 ppm = LEL)
  Orange: 11 meters --- (25000 ppm = 50% LEL)