

Modélisation de la dispersion atmosphérique des
toxiques en cas d'incendie de 3 cellules de
stockage de pneumatiques

Incendie de 3 cellules de stockage de pneumatiques
Dispersion des suies
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE

Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)

Time: May 9, 2018 1547 hours ST (using computer's clock)

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters

No Inversion Height

Stability Class: A (user override) Air Temperature: 20° C

Relative Humidity: 50% Ground Roughness: open country

Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 164 kilograms/sec Source Height: 437 meters

Release Duration: 60 minutes

Release Rate: 9 840 kilograms/min

Total Amount Released: 590 400 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)

Model Run: Gaussian

Red : LOC is not exceeded --- (79 mg/(cu m))

Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC..

Incendie de 3 cellules de stockage de pneumatiques
Dispersion des suies
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE

Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)

Time: May 9, 2018 1548 hours ST (using computer's clock)

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters

No Inversion Height

Stability Class: D

Air Temperature: 20° C

Relative Humidity: 50%

Ground Roughness: open country

Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 164 kilograms/sec Source Height: 175 meters

Release Duration: 60 minutes

Release Rate: 9 840 kilograms/min

Total Amount Released: 590 400 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)

Model Run: Gaussian

Red : LOC is not exceeded --- (79 mg/(cu m))

Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC..

Incendie de 3 cellules de stockage de pneumatiques
Dispersion des suies
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE

Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)

Time: May 9, 2018 1549 hours ST (using computer's clock)

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters

No Inversion Height

Stability Class: F (user override) Air Temperature: 20° C

Relative Humidity: 50% Ground Roughness: open country

Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 164 kilograms/sec Source Height: 291 meters

Release Duration: 60 minutes

Release Rate: 9 840 kilograms/min

Total Amount Released: 590 400 kilograms

THREAT ZONE: (GAUSSIAN SELECTED)

Model Run: Gaussian

Red : LOC is not exceeded --- (79 mg/(cu m))

Note: Threat zone was not drawn because the ground level concentrations never exceed the LOC..

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du Monoxyde de carbone
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: May 9, 2018 1552 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: CARBON MONOXIDE Molecular Weight: 28,01 g/mol
AEGL-1 (60 min): N/A AEGL-2 (60 min): 83 ppm AEGL-3 (60 min): 330 ppm
IDLH: 1200 ppm LEL: 125000 ppm UEL: 742000 ppm
Ambient Boiling Point: -191.7° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1000000 ppm or 100,0%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: A (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 79,6 kilograms/sec Source Height: 437 meters
Release Duration: 60 minutes
Release Rate: 4 780 kilograms/min
Total Amount Released: 286 560 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
 Use both dispersion modules to investigate its potential behavior.

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (3680 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (920 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du Monoxyde de carbone
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: May 9, 2018 1553 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: CARBON MONOXIDE Molecular Weight: 28,01 g/mol
AEGL-1 (60 min): N/A AEGL-2 (60 min): 83 ppm AEGL-3 (60 min): 330 ppm
IDLH: 1200 ppm LEL: 125000 ppm UEL: 742000 ppm
Ambient Boiling Point: -191.7° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1000000 ppm or 100,0%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: D Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 79,6 kilograms/sec Source Height: 175 meters
Release Duration: 60 minutes
Release Rate: 4 780 kilograms/min
Total Amount Released: 286 560 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (3680 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (920 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du Monoxyde de carbone
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)
Time: May 9, 2018 1553 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: CARBON MONOXIDE Molecular Weight: 28,01 g/mol
AEGL-1 (60 min): N/A AEGL-2 (60 min): 83 ppm AEGL-3 (60 min): 330 ppm
IDLH: 1200 ppm LEL: 125000 ppm UEL: 742000 ppm
Ambient Boiling Point: -191.7° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1000000 ppm or 100,0%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: F (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 79,6 kilograms/sec Source Height: 291 meters
Release Duration: 60 minutes
Release Rate: 4 780 kilograms/min
Total Amount Released: 286 560 kilograms
Note: This chemical may flash boil and/or result in two phase flow.
Use both dispersion modules to investigate its potential behavior.

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (3680 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (920 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du Dioxyde de carbone
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: May 9, 2018 1555 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: CARBON DIOXIDE Molecular Weight: 44.01 g/mol
PAC-1: 30000 ppm PAC-2: 30000 ppm PAC-3: 50000 ppm
IDLH: 40000 ppm
Normal Boiling Point: -unavail-
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%
Note: Not enough chemical data to use Heavy Gas option

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: A (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1060.6 kilograms/sec Source Height: 330 meters
Release Duration: 60 minutes
Release Rate: 63,600 kilograms/min
Total Amount Released: 3,818,160 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (89980 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du Dioxyde de carbone
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: May 9, 2018 1556 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: CARBON DIOXIDE Molecular Weight: 44.01 g/mol
PAC-1: 30000 ppm PAC-2: 30000 ppm PAC-3: 50000 ppm
IDLH: 40000 ppm
Normal Boiling Point: -unavail-
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%
Note: Not enough chemical data to use Heavy Gas option

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: D Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1060.6 kilograms/sec Source Height: 132 meters
Release Duration: 60 minutes
Release Rate: 63,600 kilograms/min
Total Amount Released: 3,818,160 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (89980 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du Dioxyde de carbone
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)
Time: May 9, 2018 1558 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: CARBON DIOXIDE Molecular Weight: 44.01 g/mol
PAC-1: 30000 ppm PAC-2: 30000 ppm PAC-3: 50000 ppm
IDLH: 40000 ppm
Normal Boiling Point: -unavail-
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%
Note: Not enough chemical data to use Heavy Gas option

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: F (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1060.6 kilograms/sec Source Height: 220 meters
Release Duration: 60 minutes
Release Rate: 63,600 kilograms/min
Total Amount Released: 3,818,160 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (89980 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du SO₂
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: May 9, 2018 1602 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: SULFUR DIOXIDE Molecular Weight: 64,06 g/mol
AEGL-1 (60 min): 0.2 ppm AEGL-2 (60 min): 0.75 ppm AEGL-3 (60 min): 30 ppm
IDLH: 100 ppm
Ambient Boiling Point: -10.3° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1000000 ppm or 100,0%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: A (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1,77 kilograms/sec Source Height: 437 meters
Release Duration: 60 minutes
Release Rate: 646 kilograms/min
Total Amount Released: 38 772 kilograms
Note: This chemical may flash boil and/or result in two phase flow.

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (1885 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (211 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du SO₂
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: May 9, 2018 1603 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: SULFUR DIOXIDE Molecular Weight: 64,06 g/mol
AEGL-1 (60 min): 0.2 ppm AEGL-2 (60 min): 0.75 ppm AEGL-3 (60 min): 30 ppm
IDLH: 100 ppm
Ambient Boiling Point: -10.3° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1000000 ppm or 100,0%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: D Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1,77 kilograms/sec Source Height: 175 meters
Release Duration: 60 minutes
Release Rate: 646 kilograms/min
Total Amount Released: 38 772 kilograms
Note: This chemical may flash boil and/or result in two phase flow.

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (1885 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (211 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du SO₂
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)
Time: May 9, 2018 1605 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: SULFUR DIOXIDE Molecular Weight: 64,06 g/mol
AEGL-1 (60 min): 0.2 ppm AEGL-2 (60 min): 0.75 ppm AEGL-3 (60 min): 30 ppm
IDLH: 100 ppm
Ambient Boiling Point: -10.3° C
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1 000 000 ppm or 100,0%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: F (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 1,77 kilograms/sec Source Height: 291 meters
Release Duration: 60 minutes
Release Rate: 646 kilograms/min
Total Amount Released: 38 772 kilograms
Note: This chemical may flash boil and/or result in two phase flow.

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (1885 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (211 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du NO₂
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: May 9, 2018 1607 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: NITROGEN DIOXIDE Molecular Weight: 46,01 g/mol
AEGL-1 (60 min): 0.5 ppm AEGL-2 (60 min): 12 ppm AEGL-3 (60 min): 20 ppm
IDLH: 20 ppm
Ambient Boiling Point: 20.8° C
Vapor Pressure at Ambient Temperature: 0.95 atm
Ambient Saturation Concentration: 959,180 ppm or 95.9%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: A (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 3,06 kilograms/sec Source Height: 437 meters
Release Duration: 60 minutes
Release Rate: 184 kilograms/min
Total Amount Released: 11 016 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (132 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (75 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du NO₂
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: May 9, 2018 1608 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: NITROGEN DIOXIDE Molecular Weight: 46,01 g/mol
AEGL-1 (60 min): 0.5 ppm AEGL-2 (60 min): 12 ppm AEGL-3 (60 min): 20 ppm
IDLH: 20 ppm
Ambient Boiling Point: 20.8° C
Vapor Pressure at Ambient Temperature: 0.95 atm
Ambient Saturation Concentration: 959,180 ppm or 95.9%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: D Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 3,06 kilograms/sec Source Height: 175 meters
Release Duration: 60 minutes
Release Rate: 184 kilograms/min
Total Amount Released: 11 016 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (132 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (75 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du NO₂
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)
Time: May 9, 2018 1608 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: NITROGEN DIOXIDE Molecular Weight: 46,01 g/mol
AEGL-1 (60 min): 0.5 ppm AEGL-2 (60 min): 12 ppm AEGL-3 (60 min): 20 ppm
IDLH: 20 ppm
Ambient Boiling Point: 20.8° C
Vapor Pressure at Ambient Temperature: 0.95 atm
Ambient Saturation Concentration: 959,180 ppm or 95.9%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: F (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 3,06 kilograms/sec Source Height: 291 meters
Release Duration: 60 minutes
Release Rate: 184 kilograms/min
Total Amount Released: 11 016 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (132 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (75 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du formol
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)
Time: May 9, 2018 1610 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: FORMIC ACID Molecular Weight: 46,03 g/mol
ERPG-1: 3 ppm ERPG-2: 25 ppm ERPG-3: 250 ppm
IDLH: 30 ppm LEL: 120000 ppm UEL: 380000 ppm
Ambient Boiling Point: 100.2° C
Vapor Pressure at Ambient Temperature: 0.044 atm
Ambient Saturation Concentration: 44,376 ppm or 4.44%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: A (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 0,122 kilograms/sec Source Height: 437 meters
Release Duration: 60 minutes
Release Rate: 7,32 kilograms/min
Total Amount Released: 439 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (31 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (12 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du formol
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: May 9, 2018 1612 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: FORMIC ACID Molecular Weight: 46,03 g/mol
ERPG-1: 3 ppm ERPG-2: 25 ppm ERPG-3: 250 ppm
IDLH: 30 ppm LEL: 120000 ppm UEL: 380000 ppm
Ambient Boiling Point: 100.2° C
Vapor Pressure at Ambient Temperature: 0.044 atm
Ambient Saturation Concentration: 44,376 ppm or 4.44%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: D Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 0,122 kilograms/sec Source Height: 175 meters
Release Duration: 60 minutes
Release Rate: 7,32 kilograms/min
Total Amount Released: 439 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (31 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (12 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion du formol
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)
Time: May 9, 2018 1613 hours ST (using computer's clock)

CHEMICAL INFORMATION:

Chemical Name: FORMIC ACID Molecular Weight: 46,03 g/mol
ERPG-1: 3 ppm ERPG-2: 25 ppm ERPG-3: 250 ppm
IDLH: 30 ppm LEL: 120000 ppm UEL: 380000 ppm
Ambient Boiling Point: 100.2° C
Vapor Pressure at Ambient Temperature: 0.044 atm
Ambient Saturation Concentration: 44,376 ppm or 4.44%

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: F (user override) Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 0,122 kilograms/sec Source Height: 291 meters
Release Duration: 60 minutes
Release Rate: 7,32 kilograms/min
Total Amount Released: 439 kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (31 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (12 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC

Incendie de 3 cellules de stockage de pneumatiques
Dispersion des fumées d'incendie_Seuils équivalents
Condition A, vent 2 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE

Building Air Exchanges Per Hour: 0.42 (unsheltered single storied)

Time: May 9, 2018 1615 hours ST (using computer's clock)

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 2 meters/sec from SW at 3 meters

No Inversion Height

Stability Class: A (user override) Air Temperature: 20° C

Relative Humidity: 50% Ground Roughness: open country

Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 118973 kilograms/sec Source Height: 437 meters

Release Duration: 60 minutes

Release Rate: 7 140 000 kilograms/min

Total Amount Released: $4,28 \cdot 10^8$ kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian

Red LOC (31018 mg/(cu m)) Max Threat Zone: LOC is not exceeded

Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Orange LOC (11346 mg/(cu m)) Max Threat Zone: LOC is not exceeded

Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion des fumées d'incendie_ Seuils équivalents
Condition D, vent 5 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE
Building Air Exchanges Per Hour: 1.04 (unsheltered single storied)
Time: May 9, 2018 1617 hours ST (using computer's clock)

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 5 meters/sec from SW at 3 meters
No Inversion Height
Stability Class: D Air Temperature: 20° C
Relative Humidity: 50% Ground Roughness: open country
Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 118973 kilograms/sec Source Height: 175 meters
Release Duration: 60 minutes
Release Rate: 7 140 000 kilograms/min
Total Amount Released: 4,28.10⁸ kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian
Red LOC (31018 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.
Orange LOC (11346 mg/(cu m)) Max Threat Zone: LOC is not exceeded
Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Incendie de 3 cellules de stockage de pneumatiques
Dispersion des fumées d'incendie_ Seuils équivalents
Condition F, vent 3 m/s

SITE DATA INFORMATION:

Location: PERSAN, FRANCE

Building Air Exchanges Per Hour: 0.61 (unsheltered single storied)

Time: May 9, 2018 1618 hours ST (using computer's clock)

ATMOSPHERIC INFORMATION: (MANUAL INPUT OF DATA)

Wind: 3 meters/sec from SW at 3 meters

No Inversion Height

Stability Class: F (user override) Air Temperature: 20° C

Relative Humidity: 50% Ground Roughness: open country

Cloud Cover: 5 tenths

SOURCE STRENGTH INFORMATION:

Direct Source: 118973 kilograms/sec Source Height: 291 meters

Release Duration: 60 minutes

Release Rate: 7 140 000 kilograms/min

Total Amount Released: 4,28.10⁸ kilograms

FOOTPRINT INFORMATION: (GAUSS SELECTED)

Dispersion Module: Gaussian

Red LOC (31018 mg/(cu m)) Max Threat Zone: LOC is not exceeded

Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.

Orange LOC (11346 mg/(cu m)) Max Threat Zone: LOC is not exceeded

Note: Footprint was not drawn because the ground level concentrations never exceed the LOC.