## ÍNDICE

## Consequence Summary Report

Workspace: 2024.05.23.ACL.SPT

Study: SPT

Summary Basis

These tables will only report global values set in the parameters. Values that are modified in the study tree will not be reported.

The report is context sensitive, and filters up to the study level. You will need to generate multiple summary reports if you have multiple studies in your workspace.

The results in this report are from the non-CFD calculations only.

Discharge Results (after atmospheric expansion)

| Path | Scenario | Weather | Peak Flowrate [kg/s] | Temperature [degC] | Liquid mass fraction in material [fraction] | Droplet diameter [um] | Expanded diameter [m] | Velocity [m/s] | End time of release [s] |
|---|---|---|---|---|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 2.2 Fuga 10 mm | Category 1.75/D | 0,164186 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 974,502 |
| | 2.3 Fuga 100 mm | Category 1.75/D | 16,4186 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 9,74502 |
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 3.2 Fuga 10 mm | Category 1.75/D | 0,165786 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 11,9431 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 16,5786 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 0,119431 |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 3.2 Fuga 10 mm | Category 1.75/D | 0,165786 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 11,9431 |
| | 3.3 Fuga 100 | Category | 16,5786 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 0,119431 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | mm | 1.75/D | | | | | | | |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 4.2 Fuga 10 mm | Category 1.75/D | 0,181254 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 1103,43 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 18,1254 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 11,0343 |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 4.2 Fuga 10 mm | Category 1.75/D | 0,181254 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 1103,43 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 18,1254 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 11,0343 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 5.2 Fuga 10 mm | Category 1.75/D | 0,18125 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 1103,45 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 18,125 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 11,0345 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 5.2 Fuga 10 mm | Category 1.75/D | 0,18125 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 1103,45 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 18,125 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 11,0345 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 4,20149 | -195 | 1 | 5367,18 | 0,0387298 | 4,42875 | 3600 |
| SPT\7. Incêndio em | | Category | 4,20149 | -195 | 1 | 5367,18 | 0,0387298 | 4,42875 | 3600 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Armazém (Monóxido de Carbono) AEGL2 | | 1.75/D | | | | | | | |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 8.2 Fuga 10 mm | Category 1.75/D | 0,18038 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 1081,05 |
| | 8.3 Fuga 100 mm | Category 1.75/D | 18,038 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 10,8105 |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.1 Rotura Catastrófica | Category 1.75/D | | 20 | 1 | 10000 | | 0 | |
| | 9.2 Fuga 10 mm | Category 1.75/D | 0,184754 | 20 | 1 | 10000 | 0,00774597 | 4,42875 | 866,015 |
| | 9.3 Fuga 100 mm | Category 1.75/D | 18,4754 | 20 | 1 | 10000 | 0,0774597 | 4,42875 | 8,66015 |

## Dispersion Results

### Input dispersion parameters

| | | |
|---|---|---|
| Core averaging time | 18,75 | s |
| Flammable averaging time | 18,75 | s |
| Toxic averaging time | Toxic averaging time = exposure duration | s |
| Height of interest | 1 | m |

### Distance downwind to minimum defined concentration

The reported concentration of interest is defined at the scenario

| Path | Scenario | Weather | Material | Material to track | Minimum concentration of interest [ppm] | Averaging time used for concentration of interest [s] | Distance downwind to minimum concentration of interest [m] |
|---|---|---|---|---|---|---|---|
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | METHANOL | METHANOL | 7200 | ERPG (3600) | Not reached at height of interest |
| | 3.2 Fuga 10 mm | Category 1.75/D | METHANOL | METHANOL | 7200 | ERPG (3600) | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | METHANOL | METHANOL | 7200 | ERPG (3600) | Not reached at height of interest |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | METHANOL | METHANOL | 2100 | ERPG (3600) | Not reached at height of interest |
| | 3.2 Fuga 10 mm | Category 1.75/D | METHANOL | METHANOL | 2100 | ERPG (3600) | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | METHANOL | METHANOL | 2100 | ERPG (3600) | Not reached at height of interest |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | TDI | TDI | 0,51 | ERPG (3600) | 487,995 |
| | 4.2 Fuga 10 mm | Category 1.75/D | TDI | TDI | 0,51 | ERPG (3600) | 480,912 |
| | 4.3 Fuga 100 mm | Category | TDI | TDI | 0,51 | ERPG (3600) | 487,828 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1.75/D | | | | | |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | TDI | TDI | 0,083 | ERPG (3600) | 1357,4 |
| | 4.2 Fuga 10 mm | Category 1.75/D | TDI | TDI | 0,083 | ERPG (3600) | 1335,83 |
| | 4.3 Fuga 100 mm | Category 1.75/D | TDI | TDI | 0,083 | ERPG (3600) | 1356,64 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | TOLUENE | TOLUENE | 3700 | ERPG (3600) | Not reached at height of interest |
| | 5.2 Fuga 10 mm | Category 1.75/D | TOLUENE | TOLUENE | 3700 | ERPG (3600) | Not reached at height of interest |
| | 5.3 Fuga 100 mm | Category 1.75/D | TOLUENE | TOLUENE | 3700 | ERPG (3600) | Not reached at height of interest |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | TOLUENE | TOLUENE | 560 | ERPG (3600) | Not reached at height of interest |
| | 5.2 Fuga 10 mm | Category 1.75/D | TOLUENE | TOLUENE | 560 | ERPG (3600) | Not reached at height of interest |
| | 5.3 Fuga 100 mm | Category 1.75/D | TOLUENE | TOLUENE | 560 | ERPG (3600) | Not reached at height of interest |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | CARBON MONOXIDE | CARBON MONOXIDE | 330 | ERPG (3600) | 241,032 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | CARBON MONOXIDE | CARBON MONOXIDE | 83 | ERPG (3600) | 631,554 |

## Distance downwind to flammable concentrations

### Concentration at maximum defined distance downwind

The reported distance of interest is defined at the scenario

| Path | Scenario | Weather | Material | Material to track | Maximum distance of interest [m] | Averaging time used for distances of interest [s] | Concentration at maximum distance of interest [ppm] |
|---|---|---|---|---|---|---|---|
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | METHANOL | METHANOL | 500 | ERPG (3600) | n/a |
| | 3.2 Fuga 10 mm | Category 1.75/D | METHANOL | METHANOL | 500 | ERPG (3600) | n/a |
| | 3.3 Fuga 100 mm | Category 1.75/D | METHANOL | METHANOL | 500 | ERPG (3600) | n/a |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | METHANOL | METHANOL | 500 | ERPG (3600) | n/a |
| | 3.2 Fuga 10 mm | Category 1.75/D | METHANOL | METHANOL | 500 | ERPG (3600) | n/a |
| | 3.3 Fuga 100 mm | Category 1.75/D | METHANOL | METHANOL | 500 | ERPG (3600) | n/a |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | TDI | TDI | 500 | ERPG (3600) | n/a |
| | 4.2 Fuga 10 mm | Category 1.75/D | TDI | TDI | 500 | ERPG (3600) | n/a |
| | 4.3 Fuga 100 mm | Category 1.75/D | TDI | TDI | 500 | ERPG (3600) | n/a |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | TDI | TDI | 500 | ERPG (3600) | 0,489457 |
| | 4.2 Fuga 10 mm | Category 1.75/D | TDI | TDI | 500 | ERPG (3600) | 0,476983 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 4.3 Fuga 100 mm | Category 1.75/D | TDI | TDI | 500 | ERPG (3600) | 0,489161 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | TOLUENE | TOLUENE | 500 | ERPG (3600) | n/a |
| | 5.2 Fuga 10 mm | Category 1.75/D | TOLUENE | TOLUENE | 500 | ERPG (3600) | n/a |
| | 5.3 Fuga 100 mm | Category 1.75/D | TOLUENE | TOLUENE | 500 | ERPG (3600) | n/a |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | TOLUENE | TOLUENE | 500 | ERPG (3600) | n/a |
| | 5.2 Fuga 10 mm | Category 1.75/D | TOLUENE | TOLUENE | 500 | ERPG (3600) | n/a |
| | 5.3 Fuga 100 mm | Category 1.75/D | TOLUENE | TOLUENE | 500 | ERPG (3600) | n/a |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | CARBON MONOXIDE | CARBON MONOXIDE | 500 | ERPG (3600) | 117,947 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | CARBON MONOXIDE | CARBON MONOXIDE | 500 | ERPG (3600) | 117,947 |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.1 Rotura Catastrófica | Category 1.75/D | TETRAHYDROFURAN | TETRAHYDROFURAN | 500 | Flammable (18.75) | n/a |
| | 9.3 Fuga 100 mm | Category 1.75/D | TETRAHYDROFURAN | TETRAHYDROFURAN | 500 | Flammable (18.75) | n/a |

## Outdoor Toxic Results

### Distance downwind to defined concentrations

The reported concentrations are defined in the respective material properties

| Path | Scenario | Weather | Distance downwind to ERPG1 (3600 s) [m] | Distance downwind to ERPG2 (3600 s) [m] | Distance downwind to ERPG3 (3600 s) [m] | Distance downwind to STEL (900 s) [m] | Distance downwind to IDLH (1800 s) [m] |
|---|---|---|---|---|---|---|---|
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | n/a | n/a | n/a | n/a | n/a |
| | 3.2 Fuga 10 mm | Category 1.75/D | n/a | n/a | n/a | n/a | n/a |
| | 3.3 Fuga 100 mm | Category 1.75/D | n/a | n/a | n/a | n/a | n/a |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | n/a | n/a | n/a | n/a | n/a |
| | 3.2 Fuga 10 mm | Category 1.75/D | n/a | n/a | n/a | n/a | n/a |
| | 3.3 Fuga 100 mm | Category 1.75/D | n/a | n/a | n/a | n/a | n/a |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | 21,8314 | 4,29104 | n/a | n/a | n/a |
| | 4.2 Fuga 10 mm | Category 1.75/D | 22,4733 | 4,22109 | n/a | n/a | n/a |
| | 4.3 Fuga 100 mm | Category 1.75/D | 21,8329 | 4,29032 | n/a | n/a | n/a |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | 21,8323 | 4,29161 | n/a | n/a | n/a |
| | 4.2 Fuga 10 mm | Category 1.75/D | 22,4732 | 4,22071 | n/a | n/a | n/a |
| | 4.3 Fuga 100 mm | Category 1.75/D | 21,8329 | 4,29208 | n/a | n/a | n/a |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | 21,8313 | 4,2928 | n/a | n/a | n/a |
| | 5.2 Fuga 10 mm | Category 1.75/D | 22,4641 | 4,21932 | n/a | n/a | n/a |
| | 5.3 Fuga 100 mm | Category 1.75/D | 21,8327 | 4,29058 | n/a | n/a | n/a |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | 21,8313 | 4,2928 | n/a | n/a | n/a |
| | 5.2 Fuga 10 mm | Category 1.75/D | 22,4641 | 4,21932 | n/a | n/a | n/a |
| | 5.3 Fuga 100 mm | Category 1.75/D | 21,8327 | 4,29058 | n/a | n/a | n/a |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 347,38 | 230,542 | 174,514 | n/a | n/a |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 347,38 | 230,542 | 174,514 | n/a | n/a |

### Distance downwind to defined dangerous doses

The reported dangerous doses are defined in the respective material properties

### Exposure duration at defined dangerous doses

The reported dangerous doses are defined in the respective material properties

## Jet Fire Results

### Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

| Path | Scenario | Weather | Flame length [m] | Distance downwind to intensity level 1 (5 kW/m2) [m] | Distance downwind to intensity level 2 (7 kW/m2) [m] | Distance downwind to intensity level 3 (12,5 kW/m2) [m] | Distance downwind to intensity level 4 (37,5 kW/m2) [m] |
|---|---|---|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.3 Fuga 100 mm | Category 1.75/D | 10,4654 | 14,0258 | 13,2422 | 12,1046 | Not reached at height of interest |
| SPT\3. Contentor Metanol AEGL 3 | 3.2 Fuga 10 mm | Category 1.75/D | 0,76427 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | 14,1436 | 15,5382 | 15,2486 | Not reached at height of interest | Not reached at height of interest |
| SPT\3. Contentor Metanol AEGL 2 | 3.2 Fuga 10 mm | Category 1.75/D | 0,76427 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | 14,1436 | 15,5382 | 15,2486 | Not reached at height of interest | Not reached at height of interest |
| SPT\4. Contentor TDI - AEGL3 | 4.3 Fuga 100 mm | Category 1.75/D | 3,96933 | 5,76749 | 5,42297 | 4,9099 | Not reached at height of interest |
| SPT\4. Contentor TDI - AEGL2 | | Category 1.75/D | 3,96933 | 5,76749 | 5,42297 | 4,9099 | Not reached at height of interest |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.3 Fuga 100 mm | Category 1.75/D | 1,97697 | 2,30614 | 2,02305 | Not reached at height of interest | Not reached at height of interest |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | | Category 1.75/D | 1,97697 | 2,30614 | 2,02305 | Not reached at height of interest | Not reached at height of interest |

## Radiation at maximum defined distance downwind

The reported distance of interest is defined at the scenario

| Path | Scenario | Weather | Maximum distance of interest [m] | Radiation intensity at maximum distance of interest [kW/m2] |
|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.3 Fuga 100 mm | Category 1.75/D | Not specified | n/a |
| SPT\3. Contentor Metanol AEGL 3 | 3.2 Fuga 10 mm | Category 1.75/D | 500 | 1,36376E-07 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 500 | 0,000161763 |
| SPT\3. Contentor Metanol AEGL 2 | 3.2 Fuga 10 mm | Category 1.75/D | 500 | 1,36376E-07 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 500 | 0,000161763 |
| SPT\4. Contentor TDI - AEGL3 | 4.3 Fuga 100 mm | Category 1.75/D | 500 | 5,07158E-05 |
| SPT\4. Contentor TDI - AEGL2 | | Category 1.75/D | 500 | 5,07158E-05 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.3 Fuga 100 mm | Category 1.75/D | 500 | 9,41501E-06 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | | Category 1.75/D | 500 | 9,41501E-06 |

## Early Pool Fire Results

### Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

| Path | Scenario | Weather | Pool diameter [m] | Distance downwind to intensity level 1 (5 kW/m2) [m] | Distance downwind to intensity level 2 (7 kW/m2) [m] | Distance downwind to intensity level 3 (12,5 kW/m2) [m] | Distance downwind to intensity level 4 (37,5 kW/m2) [m] |
|---|---|---|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.2 Fuga 10 mm | Category 1.75/D | 2,60079 | 7,09372 | 6,29714 | 5,13744 | 2,48955 |
| | 2.3 Fuga 100 mm | Category 1.75/D | 7,17543 | 17,6792 | 15,5823 | 12,3931 | 6,10619 |
| SPT\3. Contentor Metanol AEGL 3 | 3.2 Fuga 10 mm | Category 1.75/D | 0,7939 | 1,36633 | 1,27818 | 1,07665 | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | 0,795446 | 1,36865 | 1,28065 | 1,07794 | Not reached at height of interest |
| SPT\3. Contentor Metanol AEGL 2 | 3.2 Fuga 10 mm | Category 1.75/D | 0,7939 | 1,36633 | 1,27818 | 1,07665 | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | 0,795446 | 1,36865 | 1,28065 | 1,07794 | Not reached at height of interest |
| SPT\4. Contentor TDI - AEGL3 | 4.2 Fuga 10 mm | Category 1.75/D | 1,77895 | 9,75889 | 8,54154 | 6,92726 | 3,90884 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 7,64739 | 24,6728 | 21,4044 | 16,116 | 6,70546 |
| SPT\4. Contentor TDI - AEGL2 | 4.2 Fuga 10 mm | Category 1.75/D | 1,77895 | 9,75889 | 8,54154 | 6,92726 | 3,90884 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 7,64739 | 24,6728 | 21,4044 | 16,116 | 6,70546 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.2 Fuga 10 mm | Category 1.75/D | 1,77893 | 9,75882 | 8,54148 | 6,9272 | 3,90882 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 5.3 Fuga 100 mm | Category 1.75/D | 7,64845 | 24,6746 | 21,4058 | 16,1168 | 6,70969 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.2 Fuga 10 mm | Category 1.75/D | 1,77893 | 9,75882 | 8,54148 | 6,9272 | 3,90882 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 7,64845 | 24,6746 | 21,4058 | 16,1168 | 6,70969 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 10,6698 | 19,6268 | 16,4725 | 10,5682 | Not reached at height of interest |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 10,6698 | 19,6268 | 16,4725 | 10,5682 | Not reached at height of interest |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.2 Fuga 10 mm | Category 1.75/D | 1,8484 | 9,51863 | 8,34535 | 6,74969 | 3,99187 |
| | 8.3 Fuga 100 mm | Category 1.75/D | 7,58032 | 23,9742 | 20,843 | 15,8168 | 6,7001 |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.2 Fuga 10 mm | Category 1.75/D | 0,485012 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |
| | 9.3 Fuga 100 mm | Category 1.75/D | 4,85012 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |

## Radiation at maximum defined distance downwind

The reported distance of interest is defined at the scenario

| Path | Scenario | Weather | Maximum distance of interest [m] | Radiation intensity at maximum distance of interest [kW/m2] |
|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.2 Fuga 10 mm | Category 1.75/D | Not specified | n/a |
| | 2.3 Fuga 100 mm | Category 1.75/D | Not specified | n/a |
| SPT\3. Contentor Metanol AEGL 3 | 3.2 Fuga 10 mm | Category 1.75/D | 500 | 9,05107E-06 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 500 | 9,0868E-06 |
| SPT\3. Contentor Metanol AEGL 2 | 3.2 Fuga 10 mm | Category 1.75/D | 500 | 9,05107E-06 |

| | | | | |
|---|---|---|---|---|
| | 3.3 Fuga 100 mm | Category 1.75/D | 500 | 9,0868E-06 |
| SPT\4. Contentor TDI - AEGL3 | 4.2 Fuga 10 mm | Category 1.75/D | 500 | 0,000702652 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 500 | 0,0053424 |
| SPT\4. Contentor TDI - AEGL2 | 4.2 Fuga 10 mm | Category 1.75/D | 500 | 0,000702652 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 500 | 0,0053424 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.2 Fuga 10 mm | Category 1.75/D | 500 | 0,00070264 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 500 | 0,00534323 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.2 Fuga 10 mm | Category 1.75/D | 500 | 0,00070264 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 500 | 0,00534323 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 500 | 0,0031012 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 500 | 0,0031012 |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.2 Fuga 10 mm | Category 1.75/D | Not specified | n/a |
| | 8.3 Fuga 100 mm | Category 1.75/D | Not specified | n/a |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.2 Fuga 10 mm | Category 1.75/D | Not specified | n/a |
| | 9.3 Fuga 100 mm | Category 1.75/D | 500 | 0,000186192 |

## Late Pool Fire Results

### Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

| Path | Scenario | Weather | Pool diameter [m] | Distance downwind to intensity level 1 (5 kW/m2) [m] | Distance downwind to intensity level 2 (7 kW/m2) [m] | Distance downwind to intensity level 3 (12,5 kW/m2) [m] | Distance downwind to intensity level 4 (37,5 kW/m2) [m] |
|---|---|---|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.1 Rotura Catastrófica | Category 1.75/D | 7,18843 | 17,7084 | 15,6077 | 12,4131 | 6,11638 |
| | 2.2 Fuga 10 mm | Category 1.75/D | 6,83248 | 16,9089 | 14,9102 | 11,8655 | 5,83051 |
| | 2.3 Fuga 100 mm | Category 1.75/D | 7,17543 | 17,6792 | 15,5823 | 12,3931 | 6,10619 |
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | 0,797323 | 1,37144 | 1,28347 | 1,0803 | Not reached at height of interest |
| | 3.2 Fuga 10 mm | Category 1.75/D | 0,7939 | 1,36633 | 1,27818 | 1,07665 | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | 0,795446 | 1,36865 | 1,28065 | 1,07794 | Not reached at height of interest |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | 0,797323 | 1,37144 | 1,28347 | 1,0803 | Not reached at height of interest |
| | 3.2 Fuga 10 mm | Category 1.75/D | 0,7939 | 1,36633 | 1,27818 | 1,07665 | Not reached at height of interest |
| | 3.3 Fuga 100 mm | Category 1.75/D | 0,795446 | 1,36865 | 1,28065 | 1,07794 | Not reached at height of interest |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | 7,64994 | 24,6772 | 21,4079 | 16,1181 | 6,71008 |
| | 4.2 Fuga 10 mm | Category 1.75/D | 7,21849 | 23,9362 | 20,7958 | 15,7464 | 6,62134 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 4.3 Fuga 100 mm | Category 1.75/D | 7,64739 | 24,6728 | 21,4044 | 16,116 | 6,70546 |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | 7,64994 | 24,6772 | 21,4079 | 16,1181 | 6,71008 |
| | 4.2 Fuga 10 mm | Category 1.75/D | 7,21849 | 23,9362 | 20,7958 | 15,7464 | 6,62134 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 7,64739 | 24,6728 | 21,4044 | 16,116 | 6,70546 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | 7,6501 | 24,6774 | 21,4081 | 16,1182 | 6,71012 |
| | 5.2 Fuga 10 mm | Category 1.75/D | 7,2166 | 23,9328 | 20,7931 | 15,7447 | 6,6208 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 7,64845 | 24,6746 | 21,4058 | 16,1168 | 6,70969 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | 7,6501 | 24,6774 | 21,4081 | 16,1182 | 6,71012 |
| | 5.2 Fuga 10 mm | Category 1.75/D | 7,2166 | 23,9328 | 20,7931 | 15,7447 | 6,6208 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 7,64845 | 24,6746 | 21,4058 | 16,1168 | 6,70969 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 16,294 | 28,7958 | 24,3212 | 16,2141 | Not reached at height of interest |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 16,294 | 28,7958 | 24,3212 | 16,2141 | Not reached at height of interest |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.1 Rotura Catastrófica | Category 1.75/D | 7,57658 | 23,968 | 20,8378 | 15,8136 | 6,69915 |
| | 8.2 Fuga 10 mm | Category 1.75/D | 7,41726 | 23,6989 | 20,6155 | 15,676 | 6,6577 |
| | 8.3 Fuga 100 mm | Category | 7,58032 | 23,9742 | 20,843 | 15,8168 | 6,7001 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1.75/D | | | | | |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.1 Rotura Catastrófica | Category 1.75/D | 6,75935 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |
| | 9.2 Fuga 10 mm | Category 1.75/D | 5,96957 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |
| | 9.3 Fuga 100 mm | Category 1.75/D | 6,75893 | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest | Not reached at height of interest |

### Radiation at maximum defined distance downwind

The reported distance of interest is defined at the scenario

| Path | Scenario | Weather | Maximum distance of interest [m] | Radiation intensity at maximum distance of interest [kW/m2] |
|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.1 Rotura Catastrófica | Category 1.75/D | Not specified | n/a |
| | 2.2 Fuga 10 mm | Category 1.75/D | Not specified | n/a |
| | 2.3 Fuga 100 mm | Category 1.75/D | Not specified | n/a |
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | 500 | 9,13028E-06 |
| | 3.2 Fuga 10 mm | Category 1.75/D | 500 | 9,05107E-06 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 500 | 9,0868E-06 |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | 500 | 9,13028E-06 |
| | 3.2 Fuga 10 mm | Category 1.75/D | 500 | 9,05107E-06 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 500 | 9,0868E-06 |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | 500 | 0,00534439 |
| | 4.2 Fuga 10 mm | Category 1.75/D | 500 | 0,00500539 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 500 | 0,0053424 |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | 500 | 0,00534439 |
| | 4.2 Fuga 10 mm | Category 1.75/D | 500 | 0,00500539 |

| | | | | |
|---|---|---|---|---|
| | 4.3 Fuga 100 mm | Category 1.75/D | 500 | 0,0053424 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | 500 | 0,00534451 |
| | 5.2 Fuga 10 mm | Category 1.75/D | 500 | 0,00500389 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 500 | 0,00534323 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | 500 | 0,00534451 |
| | 5.2 Fuga 10 mm | Category 1.75/D | 500 | 0,00500389 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 500 | 0,00534323 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 500 | 0,00728613 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 500 | 0,00728613 |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.1 Rotura Catastrófica | Category 1.75/D | Not specified | n/a |
| | 8.2 Fuga 10 mm | Category 1.75/D | Not specified | n/a |
| | 8.3 Fuga 100 mm | Category 1.75/D | Not specified | n/a |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.1 Rotura Catastrófica | Category 1.75/D | 500 | 0,000342714 |
| | 9.2 Fuga 10 mm | Category 1.75/D | Not specified | n/a |
| | 9.3 Fuga 100 mm | Category 1.75/D | 500 | 0,000342674 |

## Flash Fire Results

### Distance downwind to defined concentrations

The reported LFL and LFL fraction are defined in the respective material property

| Path | Scenario | Weather | Distance downwind to LFL [m] | Distance downwind to LFL Fraction [m] |
|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 2.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 2.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 3.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 3.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 3.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 4.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 4.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 4.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 5.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 5.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 5.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| | 5.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 0 | 0 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 0 | 0 |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.1 Rotura Catastrófica | Category 1.75/D | 0 | 0 |
| | 8.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 8.3 Fuga 100 mm | Category 1.75/D | 0 | 0 |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.1 Rotura Catastrófica | Category 1.75/D | | |
| | 9.2 Fuga 10 mm | Category 1.75/D | 0 | 0 |
| | 9.3 Fuga 100 mm | Category 1.75/D | | |

## Maximum distance to LFL fraction at any height

| Path | Scenario | Weather | Max flash fire distance [m] | Height of the max flash fire distance [m] | Time [s] |
|---|---|---|---|---|---|
| SPT\2. Contentor Isopropanol | 2.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 2.2 Fuga 10 mm | Category 1.75/D | | | |
| | 2.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\3. Contentor Metanol AEGL 3 | 3.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 3.2 Fuga 10 mm | Category 1.75/D | | | |
| | 3.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\3. Contentor Metanol AEGL 2 | 3.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 3.2 Fuga 10 mm | Category 1.75/D | | | |
| | 3.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\4. Contentor TDI - AEGL3 | 4.1 Rotura Catastrófica | Category 1.75/D | | | |

| | | | | | |
|---|---|---|---|---|---|
| | 4.2 Fuga 10 mm | Category 1.75/D | | | |
| | 4.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\4. Contentor TDI - AEGL2 | 4.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 4.2 Fuga 10 mm | Category 1.75/D | | | |
| | 4.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL3 | 5.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 5.2 Fuga 10 mm | Category 1.75/D | | | |
| | 5.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\5. Contentor Acrimul TPP 60X (Tolueno) AEGL2 | 5.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 5.2 Fuga 10 mm | Category 1.75/D | | | |
| | 5.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL3 | 7.1 Fuga 50 mm | Category 1.75/D | 0,716794 | 0 | 174,969 |
| SPT\7. Incêndio em Armazém (Monóxido de Carbono) AEGL2 | | Category 1.75/D | 0,716794 | 0 | 174,969 |
| SPT\8. Cenário Disperbyk 163 (Xileno) | 8.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 8.2 Fuga 10 mm | Category 1.75/D | | | |
| | 8.3 Fuga 100 mm | Category 1.75/D | | | |
| SPT\9. Cenário Tetrahydrofuran (Tetrahidrofurano) | 9.1 Rotura Catastrófica | Category 1.75/D | | | |
| | 9.2 Fuga 10 mm | Category 1.75/D | | | |
| | 9.3 Fuga 100 mm | Category 1.75/D | | | |