Input Report
Workspace: Eurogalva_ACL_Jan2024
3600 s
Study
Eurogalva_ACL_Jan2024

Tab	Group	Field	Value	Units
Context of calculations	Selection of context	Weathers to use for this study	Weather folder	
		Parameters to use for this study	3600s	
		Obstructions to use for this study		
Material	Modelling of mixtures	Multi or pseudo-component modelling	PC modelling	
Bund, building and terrain	Terrain and bund definition	Type of terrain for dispersion	Land	
		Type of pool substrate and bunds	Concrete, no bund	
Toxic parameters	Indoor toxic calculations	Specify the downwind building type	Unselected	
		Building type (downwind building type)		
Dispersion	Distances of interest	Distances of interest		m

04b_Incendio armazém de pintura líquida

Standalones

Eurogalva_ACL_Jan2024\3600 s

Tab	Group	Field	Value	Units
Material	Material	Material	M-XYLENE	
Geometry	Geometry	East	0	m
		North	0	m

Pool fire

Pool fire

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Tab	Group	Field	Value	Units
Pool fire	Pool characteristics	Shape	Circular	
		Diameter	9	m
		Length	9,3	m
		Width	6,6	m
		Rotation (anti-clockwise)	0	deg
		Elevation	0	m
		Base surface	Fire on land	
	Flame characteristics	Calculate flame length and angle?	Yes	
		Flame length		m
		Flame angle to vertical		deg
		Calculation method for surface emissive power	Calculate SEP	
		Flame emissivity		kW/m2
Pool fire parameters	Radiation levels	Number of input radiation levels	5	
		Intensity levels	37,5; 12,5; 7; 5; 3	kW/m2
	Temperature levels	Number of input temperature levels	6	
		Temperature levels	200; 400; 600; 800; 1000; 1200	degC
	Parameters	Pool fire maximum exposure duration	20	s
		Radiative fraction for general fires	0,4	fraction
	CFD calculations	Time step specification	Automatic	
		Number of time steps	750	
	CFD grid parameters	Bounding box to be used in calculations	Phast calculated	
		Minimum thermal radiation intensity level	1	kW/m2
		X lower	-9,95E+36	m
		X upper	-9,95E+36	m
		Y lower	-9,95E+36	m
		Y upper	-9,95E+36	m
		Z lower	-9,95E+36	m
		Z upper	-9,95E+36	m
		Number of grid nodes to use	500000	

Wind direction	Wind direction	Wind direction	270	deg
		Wind orientation about the z-axis (anti-clockwise from the East)	0	deg
Calculations	Type of results required	Radiation/temperature at a point	No	
		Radiation/temperature vs distance	Yes	
		Radiation ellipse	No	
		Radiation/temperature contours	No	
Radiation/temperature vs distance	Transect	Maximum distance	1000	m
		Rotation (anti-clockwise)	0	deg
		Height above origin	0,1	m
	Observer	Fixed inclination?	No	
		Inclination		deg
		Fixed orientation?	No	
		Orientation about the z-axis		deg