

Consequence Summary Report

Workspace: ACL_Navarra_Nov2024_8.71

Study: 3600s_Resposta_Oficio ACL

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]
3600s_Resposta_Oficio ACL01_Rotura total de um IBC de Acid 136A	Catastrophic rupture	1.1/D		14,9997	1	10000		0,76278	
3600s_Resposta_Oficio ACL02_Fuga 100mm num IBC de Acid 136A	Leak	1.1/D	25,3404	14,9993	1	10000	0,0774597	5,3932	44,0404
3600s_Resposta_Oficio ACL03_Fuga 10mm num IBC de Acid 136A		1.1/D	0,253404	14,9993	1	10000	0,00774597	5,3932	3600
3600s_Resposta_Oficio ACL04_Rotura total de um IBC de Gardoacid P4392	Catastrophic rupture	1.1/D		14,9996	1	10000		0,784984	
3600s_Resposta_Oficio ACL05_Fuga 100mm num IBC de Gardoacid P4392	Leak	1.1/D	26,0594	14,9992	1	10000	0,0774597	5,54925	43,209
3600s_Resposta_Oficio ACL06_Fuga 10mm num IBC de Gardoacid P4392		1.1/D	0,260594	14,9992	1	10000	0,00774597	5,54925	3600
3600s_Resposta_Oficio ACL07_Rotura total bilha de ácido nítrico 60%	Catastrophic rupture	1.1/D		14,9997	1	10000		0,526637	
3600s_Resposta_Oficio ACL08_Fuga 100mm bilha de ácido	Leak	1.1/D	22,1038	14,9995	1	10000	0,0774597	3,72389	3,0764

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nítrico 60%									
3600s_Resposta_Ofici o ACL\09_Fuga 10mm bilha de ácido nítrico 60%	1.1/D	0,22103 8	14,9995	1	10000	0,0077459 7	3,72389	307,64	

Dispersion Results

Input dispersion parameters

Core averaging time	18,75	s
Flammable averaging time	18,75	s
Toxic averaging time	600	s
Height of interest	0	m

Distance downwind to defined concentrations

The reported concentration of interest is defined at the scenario

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]
3600s_Resposta_Ofício ACL\01_Rotura total de um IBC de Acid 136A	Catastrophic rupture	1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\02_Fuga 100mm num IBC de Acid 136A	Leak	1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\03_Fuga 10mm num IBC de Acid 136A		1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\04_Rotura total de um IBC de Gardoacid P4392	Catastrophic rupture	1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\05_Fuga 100mm num IBC de Gardoacid P4392	Leak	1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\06_Fuga 10mm num IBC de Gardoacid P4392		1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\07_Rotura total bilha de ácido nítrico 60%	Catastrophic rupture	1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\08_Fuga 100mm bilha de ácido nítrico 60%	Leak	1.1/D	n/a	n/a	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\09_Fuga 10mm bilha de ácido nítrico 60%		1.1/D	n/a	n/a	n/a	n/a	n/a

Distance downwind to defined dangerous doses

The reported dangerous doses are defined in the respective material properties

Path	Scenario	Weather	Distance downwind to dangerous toxic load [m]	Distance downwind to dangerous dose 2 [m]	Distance downwind to dangerous dose 3 [m]
3600s_Resposta_Ofício ACL\01_Rotura total de um IBC de Acid 136A	Catastrophic rupture	1.1/D	2,43571	n/a	n/a
3600s_Resposta_Ofício	Leak	1.1/D	9,82556	3,23674	2,37237

ACL\02_Fuga 100mm num IBC de Acid 136A					
3600s_Resposta_Ofício		1.1/D	44,3566	9,28155	7,63898
ACL\03_Fuga 10mm num IBC de Acid 136A					
3600s_Resposta_Ofício	Catastrophic rupture	1.1/D	101,81	18,44	12,3131
ACL\04_Rotura total de um IBC de Gardoacid P4392					
3600s_Resposta_Ofício	Leak	1.1/D	103,329	18,4797	12,4762
ACL\05_Fuga 100mm num IBC de Gardoacid P4392					
3600s_Resposta_Ofício		1.1/D	76,6175	12,711	9,70351
ACL\06_Fuga 10mm num IBC de Gardoacid P4392					
3600s_Resposta_Ofício	Catastrophic rupture	1.1/D	460,283	27,2868	9,52
ACL\07_Rotura total bilha de ácido nítrico 60%					
3600s_Resposta_Ofício	Leak	1.1/D	460,013	27,7334	10,5109
ACL\08_Fuga 100mm bilha de ácido nítrico 60%					
3600s_Resposta_Ofício		1.1/D	451,624	27,1211	10,1207
ACL\09_Fuga 10mm bilha de ácido nítrico 60%					

Exposure duration at defined dangerous doses

The reported dangerous doses are defined in the respective material properties

Path	Scenario	Weather	Exposure duration for dangerous toxic load [s]	Exposure duration for dangerous dose 2 [s]	Exposure duration for dangerous dose 3 [s]	Exposure duration for dangerous dose 4 [s]	Exposure duration for dangerous dose 5 [s]	Exposure duration for dangerous dose 6 [s]
3600s_Resposta_Ofício	Catastrophic rupture	1.1/D	5,12453	n/a	n/a	n/a	n/a	n/a
ACL\01_Rotura total de um IBC de Acid 136A								
3600s_Resposta_Ofício	Leak	1.1/D	39,6363	39,6363	39,6363	n/a	n/a	n/a
ACL\02_Fuga 100mm num IBC de Acid 136A								
3600s_Resposta_Ofício		1.1/D	3240	3240	3240	n/a	n/a	n/a
ACL\03_Fuga 10mm num IBC de Acid 136A								
3600s_Resposta_Ofício	Catastrophic rupture	1.1/D	3233,75	3231,77	3232	n/a	n/a	n/a
ACL\04_Rotura total de um IBC de Gardoacid P4392								

3600s_Resposta_Ofício ACL\05_Fuga 100mm num IBC de Gardoacid P4392	Leak	1.1/D	3303,54	3215,2	3215,68	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\06_Fuga 10mm num IBC de Gardoacid P4392		1.1/D	3228,28	3230,17	3230,34	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\07_Rotura total bilha de ácido nítrico 60%	Catastrophic rupture	1.1/D	3144,23	3147,1	3151,8	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\08_Fuga 100mm bilha de ácido nítrico 60%	Leak	1.1/D	3145,87	3152,86	3158,94	n/a	n/a	n/a
3600s_Resposta_Ofício ACL\09_Fuga 10mm bilha de ácido nítrico 60%		1.1/D	3016,45	3061,06	3110,82	n/a	n/a	n/a