site_type	parameter	source_id	pollutant	emis_type	value
Max indiv risk	Cancer risk	Total	Ethylene oxide	na	0.000881243
Max indiv risk	Cancer risk	S0000017	Ethylene oxide	Vapor	0.000576155
Max indiv risk	Cancer risk	S0000021	Ethylene oxide	Vapor	0.000252221
Max indiv risk	Cancer risk	S0000023	Ethylene oxide	Vapor	2.68008E-05
Max indiv risk	Cancer risk	S0000020	Ethylene oxide	Vapor	8.68883E-06
Max indiv risk	Cancer risk	S0000016	Ethylene oxide	Vapor	5.99652E-06
Max indiv risk	Cancer risk	S0000022	Ethylene oxide	Vapor	5.26225E-06
Max indiv risk	Cancer risk	S0000018	Ethylene oxide	Vapor	2.93707E-06
Max indiv risk	Cancer risk	S0000012	Ethylene oxide	Vapor	2.81469E-06
Max indiv risk	Cancer risk	S0000019	Ethylene oxide	Vapor	3.67134E-07

conc (µg/m3)	emis tpy	ure 1/(µg/m3)	rfc (mg/m3)
0.176248697	0	0.005	0.03
0.11523106	0.4708	0.005	0.03
0.050444183	0.2061	0.005	0.03
0.005360153	0.0219	0.005	0.03
0.001737767	0.0071	0.005	0.03
0.001199304	0.0049	0.005	0.03
0.00105245	0.0043	0.005	0.03
0.000587414	0.0024	0.005	0.03
0.000562938	0.0023	0.005	0.03
7.34268E-05	0.0003	0.005	0.03

site_type	parameter	source_id	pollutant	emis_type	value
Max indiv risk	Cancer risk	Total	Ethylene oxide	na	0.002481174
Max indiv risk	Cancer risk	S0000017	Ethylene oxide	Vapor	0.001622187
Max indiv risk	Cancer risk	S0000021	Ethylene oxide	Vapor	0.000710137
Max indiv risk	Cancer risk	S0000023	Ethylene oxide	Vapor	7.54586E-05
Max indiv risk	Cancer risk	S0000020	Ethylene oxide	Vapor	2.44637E-05
Max indiv risk	Cancer risk	S0000016	Ethylene oxide	Vapor	1.68834E-05
Max indiv risk	Cancer risk	S0000022	Ethylene oxide	Vapor	1.48161E-05
Max indiv risk	Cancer risk	S0000018	Ethylene oxide	Vapor	8.26943E-06
Max indiv risk	Cancer risk	S0000012	Ethylene oxide	Vapor	7.92487E-06
Max indiv risk	Cancer risk	S0000019	Ethylene oxide	Vapor	1.03368E-06

conc (µg/m3)	emis tpy	ure 1/(µg/m3)	rfc (mg/m3)
0.496234819	0	0.005	0.03
0.324437374	0.4708	0.005	0.03
0.142027491	0.2061	0.005	0.03
0.015091713	0.0219	0.005	0.03
0.004892747	0.0071	0.005	0.03
0.003376685	0.0049	0.005	0.03
0.002963213	0.0043	0.005	0.03
0.001653886	0.0024	0.005	0.03
0.001584974	0.0023	0.005	0.03
0.000206736	0.0003	0.005	0.03

site_type	parameter	source_id	pollutant	emis_type	value
Max indiv risk	Cancer risk	Total	Ethylene oxide	na	0.000877561
Max indiv risk	Cancer risk	S0000009	Ethylene oxide	Vapor	0.000709455
Max indiv risk	Cancer risk	S0000024	Ethylene oxide	Vapor	0.000107488
Max indiv risk	Cancer risk	S0000010	Ethylene oxide	Vapor	4.9676E-05
Max indiv risk	Cancer risk	S0000026	Ethylene oxide	Vapor	7.6387E-06
Max indiv risk	Cancer risk	S0000021	Ethylene oxide	Vapor	1.97937E-06
Max indiv risk	Cancer risk	S0000022	Ethylene oxide	Vapor	1.06477E-06
Max indiv risk	Cancer risk	WVDAQ40	Ethylene oxide	Vapor	2.58281E-07

conc (µg/m3)	emis tpy	ure 1/(µg/m3)	rfc (mg/m3)
0.1755121	0	0.005	0.03
0.14189098	1.6481	0.005	0.03
0.021497687	0.2019	0.005	0.03
0.00993521	0.1154	0.005	0.03
0.00152774	0.2783	0.005	0.03
0.000395874	0.1275	0.005	0.03
0.000212954	0.002	0.005	0.03
5.16562E-05	0.0006	0.005	0.03

site_type	parameter	source_id	pollutant	emis_type	value
Max indiv risk	Cancer risk	Total	Ethylene oxide	na	0.002630157
Max indiv risk	Cancer risk	S0000009	Ethylene oxide	Vapor	0.002162396
Max indiv risk	Cancer risk	S0000024	Ethylene oxide	Vapor	0.000194162
Max indiv risk	Cancer risk	S0000010	Ethylene oxide	Vapor	0.000151411
Max indiv risk	Cancer risk	S0000026	Ethylene oxide	Vapor	0.000101554
Max indiv risk	Cancer risk	S0000021	Ethylene oxide	Vapor	1.79235E-05
Max indiv risk	Cancer risk	S0000022	Ethylene oxide	Vapor	1.92334E-06
Max indiv risk	Cancer risk	WVDAQ40	Ethylene oxide	Vapor	7.87232E-07

conc (µg/m3)	emis tpy	ure 1/(µg/m3)	rfc (mg/m3)
0.52603147	0	0.005	0.03
0.432479276	1.6481	0.005	0.03
0.038832315	0.2019	0.005	0.03
0.030282209	0.1154	0.005	0.03
0.020310864	0.2783	0.005	0.03
0.003584692	0.1275	0.005	0.03
0.000384669	0.002	0.005	0.03
0.000157446	0.0006	0.005	0.03

site_type	parameter	source_id	pollutant	emis_type	value
Max indiv risk	Cancer risk	Total	Ethylene oxide	na	9.23526E-05
Max indiv risk	Cancer risk	S0000030	Ethylene oxide	Vapor	6.88446E-05
Max indiv risk	Cancer risk	S0000026	Ethylene oxide	Vapor	2.35079E-05

conc (µg/m3)	emis tpy	ure 1/(µg/m3)	rfc (mg/m3)
0.018470515	0	0.005	0.03
0.013768929	0.0615	0.005	0.03
0.004701586	0.021	0.005	0.03

site_type	parameter	source_id	pollutant	emis_type	value
Max indiv risk	Cancer risk	Total	Ethylene oxide	na	0.000366557
Max indiv risk	Cancer risk	S0000030	Ethylene oxide	Vapor	0.000273251
Max indiv risk	Cancer risk	S0000026	Ethylene oxide	Vapor	9.33053E-05

conc (µg/m3)	emis tpy	ure 1/(µg/m3)	rfc (mg/m3)
0.073311331	0	0.005	0.03
0.054650265	0.0615	0.005	0.03
0.018661066	0.021	0.005	0.03

State	County	FIPS Code	EIS ID	Facility	Emission Unit ID
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718813
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718813
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718813
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718813
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718213
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718613
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718613
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718613
WV	Kanawha	54039	5782311	UNION CARBIDE CORP -SO CHARLESTON FAC.	71718613

Unit Description	Process ID	Process Description	Release Point ID
1000-SPECIALTY SURFACTANT	99277814	1000 TRITON FUG/SEC	139156012
1000-SPECIALTY SURFACTANT	99277714	1000 TRITON TANKS/LOADING	65926012
1000-SPECIALTY SURFACTANT	99278014	1000 TRITON PV-PPP	65926012
1000-SPECIALTY SURFACTANT	99277914	1000 TRITON PV NON-PPP	65926012
050 - CHEMICAL MIXING	99275714	CMIX POINT SOURCES	65924712
700 - OXIDE ADDUCTS	99276914	OA TANKS/LOADING VENTS	65925512
700 - OXIDE ADDUCTS	99277114	OA PROCESS VENTS (PPP)	65925512
700 - OXIDE ADDUCTS	99277014	OA-FUGITIVES/SECONDARY	139155912
700 - OXIDE ADDUCTS	99277214	OA PROCESS VENTS NON(PPP)	65925512

Release Point Description	Pollutant	2017 NEI_tpy	HEM Source ID
Triton Fugitives	Ethylene Oxide	0.0071	2
SPECIALTY SURFACTANTS Pt. Source	Ethylene Oxide	0.0023	12
SPECIALTY SURFACTANTS Pt. Source	Ethylene Oxide	0.0049	16
SPECIALTY SURFACTANTS Pt. Source	Ethylene Oxide	0.4708	17
CHEMICAL MIXING Pt. Source	Ethylene Oxide	0.0024	18
OXIDE ADDUCTS Pt. Source	Ethylene Oxide	0.0003	19
OXIDE ADDUCTS Pt. Source	Ethylene Oxide	0.2061	21
OA Fugitives	Ethylene Oxide	0.0043	22
OXIDE ADDUCTS Pt. Source	Ethylene Oxide	0.0219	23

State	County	FIPS Code	EIS ID	Facility	Emission Unit ID
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	71706713
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	71706513
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	71706513
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	71706513
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	71705413
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	71705313
WV	Kanawha	54039	6884411	UNION CARBIDE CORPORATION-INSTITUTE	122140613

Unit Description	Process ID	Process Description	Release Point ID
410 OXIDE RACK FLARES	99261314	410 OXIDE RACK FLARES	65920012
230 POLYOX PROCESS VENTS	99260814	230PLYX PROC VNTS-NO CONT	65919912
230 POLYOX PROCESS VENTS	99261014	230 PLYX- SOLIDS HANDLING	65919912
230 POLYOX PROCESS VENTS	99260714	230 PLYX- VENT TO FLARE	65919812
410 OXIDE RACK FUGITIVES	99258914	410 OXIDE RACK FUGITIVES	13305112
230 POLYOX FUG/SECONDARY	99258814	230 POLY FUG/SECONDARY	13305112
WWTU Secondary Emissions	174059214	Trunk Line & WWTU Air Emissions	13305112

Release Point Description	Pollutant	2017 NEI_tpy	HEM Source ID
410 EO RACK FLARE	Ethylene Oxide	0.2783	26
230POLYX POINT SRCS	Ethylene Oxide	0.002	22
230POLYX POINT SRCS	Ethylene Oxide	0.2019	24
PLYX FLARE	Ethylene Oxide	0.1275	21
FUGITIVES-SITEWIDE	Ethylene Oxide	0.1154	10
FUGITIVES-SITEWIDE	Ethylene Oxide	1.6481	9
FUGITIVES-SITEWIDE	Ethylene Oxide	0.0006	WVDAQ40

State	County	FIPS Code	EIS ID	Facility	Emission Unit ID
WV	Kanawha	54039	6885911	Covestro LLC - SOUTH CHARLESTON	88242713
WV	Kanawha	54039	6885911	Covestro LLC - SOUTH CHARLESTON	88242613

Unit Description	Process ID	Process Description	Release Point ID	Release Point Description
PROC & FUG EMISSION(B196)	119753714	EO EMISSIONS	65927112	PHASE 1V
PROC & FUG EMISSION(B103)	119752514	PROC & FUGITIVE EO	65927012	BUILDING 103

Pollutant	2017 NEI_tpy	HEM Source ID
Ethylene Oxide	0.0615	30
Ethylene Oxide	0.021	26