



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

NOV 28 2017

Mr. Michael Henry
Environmental Manager
Gavilon Fertilizer LLC - St. Joseph
1331 Capitol Avenue
Omaha, NE 68102

RE: New Source Review Permit Amendment - Permit Number: 122014-002B
Project Number: 2017-03-045; Installation Number: 021-0131

Dear Mr. Henry:

On March 14, 2017 the Air Pollution Control Program received an amendment request for Gavilon Fertilizer. They acquired the neighboring St. Joe Terminal, LLC (021-0102) in February of 2017. Since both of these facilities are located on adjacent properties, classified under the same Standard Industrial Classification code (2875) and are now under common ownership and control, they are considered one installation as defined by 10 CSR 10-6.020 (2)(I)17.B for permitting purposes.

Gavilon Fertilizer is taking a volunteer limits to keep the installation, now both the existing facility and the St. Joe Terminal under de minimis levels. The potential emissions were recalculated to allow Gavilon to take a throughput limit. Table 1 contains a list of equipment affected by the acquisition of St. Joe Terminal, LLC and their associated maximum hourly design rate (MHDR). The emission factors used in this analysis were obtained from the EPA's WebFIRE database (SCC 3-01-027-09, Ammonium Nitrate Production Bulk Loading) and (SCC 3-01-040-07, Urea Production Bulk Loading). Emission from EU-02, EU-03 and EU-10 are controlled by being located inside a building with a 3.7% control efficiency. All other emission were considered uncontrolled. Haul road emissions were calculated using the predictive equation found in AP-42 Section 13.2.2 Unpaved Roads (November 2006) and Section 13.2.1 Paved Roads (January 2011). The haul road emissions are only from production related traffic for all parts of the plant. The fertilizer conveyors are located inside of a building. This was given a control efficiency of 3.7%. In order to remain conservative, it was assumed that all receiving and shipping operations are carried out by straight trucks. Potential emissions are summarized in Table 2.



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Table 1. Installation Equipment List

Original Emission Point	Original Facility	Description	New Emission Point	Description	MHDR (ton/hr)
EU-01	Gavilon Fertilizer	Inbound Haul Road	Combined with EU-07		
EU-02	Gavilon Fertilizer	Truck Receiving	EU-01	Dry Fertilizer Receiving	200
EU-03	Gavilon Fertilizer	Rail Receiving	Combined with EU-01		
EU-04	Gavilon Fertilizer	Conveyor 1	EU-02	Dry Fertilizer Conveyor 1	200
EU-05	Gavilon Fertilizer	Conveyor 2	EU-03	Dry Fertilizer Conveyor 2	200
EU-08	Gavilon Fertilizer	Delumper	EU-04	Dry Fertilizer Delumper	100
EU-09	Gavilon Fertilizer	Truck Loading	EU-05	Dry Fertilizer Truck Loadout	200
EU-10	Gavilon Fertilizer	Outbound Haul Road	EU-07	Haul Road, 1600 ft, unpaved, 747 ft paved	200
EU-11	Gavilon Fertilizer	Liquid Urease Inhibitor	EU-06	Fertilizer Additive and Coatings & Haul Roads, 686 ft unpaved	0.01
			EU-08	Liquid Fertilizer Haul Roads, 300 ft unpaved, 2982 ft paved	11.4
EU-01	St. Joe Terminal	Dry Fertilizer Receiving	EU-09	Dry Fertilizer Receiving	1200
EU-02	St. Joe Terminal	Dry Fertilizer Distribution	EU-10	Dry Fertilizer Conveyor 3	1200
EU-03	St. Joe Terminal	Dry Fertilizer Loadout	EU-11	Dry Fertilizer Truck Loadout	1200
EU-04	St. Joe Terminal	Haul Road	EU-12	Dry Fertilizer Haul Road, 1600 ft unpaved, 747 ft paved	1200

Table 2. Installation Emissions Summary (tpy)

Pollutant	Regulatory <i>De Minimis</i> Levels	Potential Emissions of the Installation	Installation Conditioned Potential Emissions
PM	25.0	550.1	N/D
PM ₁₀	15.0	376.1	14.2
PM _{2.5}	10.0	121.4	N/D
SO _x	40.0	N/A	N/A
NO _x	40.0	N/A	N/A
VOC	40.0	2549.0	<40.0
CO	100.0	N/A	N/A
HAPs	10.0/25.0 ¹	15.1	<10.0/25.0 ¹
Ethylene Glycol	10.0 ²	15.1	<10.0

N/A = Not Applicable; N/D = Not Determined

¹Individual HAP limit is 10.0 tpy, combined HAP limit is 25.0 tpy

²The SMAL for ethylene glycol is 10 tpy

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.ao.mo.gov/ahc.

If you have any questions regarding this amendment, please do not hesitate to contact Sam Anzalone, at the department's Air Pollution Control Program, P.O. Box 176,

Mr. Michael Henry
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Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale

Kendall B. Hale
Permits Section Chief

KBH:saj

Enclosures

c: Kansas City Regional Office
PAMS File: 2017-03-045

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

Gavilon Fertilizer LLC - St. Joseph
Buchanan County, S20, T57N, R35W

1. **Superseding Condition**
The conditions of this permit supersede all special conditions found in the construction permits 122014-002, 122014-002A, 1297-019, and 052009-014 issued previously by the Air Pollution Control Program.
2. **Dry Fertilizer Throughput Limitation**
 - A. Gavilon Fertilizer LLC - St. Joseph shall limit the throughput of dry fertilizer to not exceed 214,250 tons in any consecutive 12-month period for the following emission units.
 - 1.) EU-01, EU-02, EU-03, EU-04, EU-05, EU-06, EU-07, EU-08, EU-09, EU-10, EU-11, EU-12
 - B. Attachment A or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 2.A
3. **Liquid Fertilizer Throughput Limitation**
 - A. Gavilon Fertilizer LLC - St. Joseph shall limit the throughput of liquid fertilizer to not exceed 100,000 tons in any consecutive 12-month period for receiving and shipping liquid fertilizer (EU-08)
 - B. Attachment B or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 3.A
4. **Fertilizer Additives and Coating Throughput Limitation**
 - A. Gavilon Fertilizer LLC - St. Joseph shall limit the volume of fertilizer additives and coatings (EU-06) use to not exceed 20,000 gallons in any consecutive 12-month period.

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- B. Attachment C or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Condition 4.A.
5. Use of Alternative Fertilizer Additives and Coating
- A. When using an alternative fertilizer additives or coatings that are different than the material listed in the Application for Authority to Construct for permit 122014-002A, Gavilon Fertilizer LLC - St. Joseph shall calculate and verify that the VOC concentration in the alternative material does not exceed 4 pounds per gallon.
 - B. When using an alternative fertilizer additives or coatings that are different than the material listed in the Application for Authority to Construct for permit 122014-002A, Gavilon Fertilizer LLC - St. Joseph shall calculate and verify that the HAP concentration in the alternative material does not exceed 2.5 pounds per gallon of combined HAP.
 - C. When using an alternative fertilizer additives or coatings that are different than the material listed in the Application for Authority to Construct for permit 122014-002A, Gavilon Fertilizer LLC - St. Joseph shall calculate and verify that the HAP concentration in the alternative material does not exceed 1.0 pounds per gallon per individual HAP and compare it to the SMAL.
 - D. Attachment D or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 5.A, 5.B, and 5.C.
 - E. In cases where the potential individual HAP emissions for the alternative fertilizer additives or coatings at 20,000 gallons per year is above the SMAL for any chemical listed in Appendix B, Gavilon Fertilizer LLC - St. Joseph shall submit an application for Authority to Construct to the Air Pollution Control Program.
6. Record Keeping and Reporting Requirements
- A. Gavilon Fertilizer LLC - St. Joseph shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include SDS for all materials used

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SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

- B. Gavilon Fertilizer LLC - St. Joseph shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.

Attachment D – Alternative Fertilizer Additives and Coatings Compliance Worksheet

Site Name: Gavilon Fertilizer LLC - St. Joseph
 Site Address: 201 E Florence Rd, St. Joseph, MO 64501
 Site County: Buchanan, S20, T57N, R35W

Inhibitor name:

Date:

(copy this sheet as needed)

A	B	C	D	E	F	G	H
Individual HAP Name and CAS No.	Product Density (lb/gal)	HAP Content (max weight %)	HAP Concentration (lb/gal)	Individual HAP PTE (tons per year)	Individual HAP SMAL (tons per year)	Coating VOC (weight %)	VOC Concentration (lb/gal)
Ethylene Glycol 107-27-1	9.2	1.0%	0.092	0.92	10.0	10.9%	1.00
Ethylene Chloride 75-00-3	9.2	0.5%	0.046	0.475	10.0		
Combined HAPs							

- A. Record all individual HAPs from this fertilizer additives or coating SDS.
- B. Record the Product Density (lbs/gal)
- C. Record the Individual HAP Content % from the SDS. If a range of values is listed, record the highest value in the range.
- D. Calculate the individual HAP concentration by using the following equation: $D = B \times C / 100$. A individual HAP concentration of less than 1.0 lb/gal is necessary for compliance with Special Condition 5.C. Combine the HAP concentration of all HAPs in the fertilizer additive or coating. A combined HAP concentration of 2.5 lb/gal or less is necessary for compliance with Special Condition 5.B
- E. Calculate the Individual HAP PTE (tons per year): $E = 20,000 \text{ gal/yr} \times B \times C / 2000 \text{ lb/ton} / 100$
- F. Record the individual HAP SMAL from Appendix B or the most recent HAP SMAL Table, located at <http://dnr.mo.gov/env/apcp/docs/cp-hapsmaltbl6.pdf> Seek approval from the Air Pollution Control Program New Source Review Unit before using this coating if the individual HAP potential to emit is greater than the SMAL.
- G. Record or calculate the VOC weight % from the SDS. If a range of values is listed, record the highest value in the range. Verify VOC status according to 10 CSR 10-6.020 Definitions and Common Reference Tables (2)(V)13.

Calculate the VOC concentration by using the following equation: $H = B \times G / 100$. A VOC concentration of 4.0 lb/gal or less is necessary for compliance with Special Condition 5.A

Appendix B: Table of Hazardous Air Pollutants and Screening Model Action Levels (May 3, 2012 Revision 10)

Chemical	CAS #	SMAL (ton/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (ton/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (ton/yr)	Group ID	VOC	PM
ACETALDEHYDE	75-07-0	9		Y	N	CARBARYL	63-25-2	10	V	Y	Y	DICHLOROPROPANE, [1,2-]	78-87-5	1		Y	N
ACETAMIDE	60-35-5	1		Y	N	CARBON DISULFIDE	75-15-0	1		Y	N	DICHLOROPROPENE, [1,3-]	542-75-6	1		Y	N
ACETONITRILE	75-05-8	4		Y	N	CARBON TETRACHLORIDE	56-23-5	1		Y	N	DICHLORVOS	62-73-7	0.2		Y	N
ACETOPHENONE	98-86-2	1		Y	N	CARBONYL SULFIDE	463-58-1	5		Y	N	DIETHANOLAMINE	111-42-2	5		Y	N
ACETYLAMINOFLUORINE, [2-]	53-98-3	0.005	V	Y	Y	CATECHOL	120-80-9	5		Y	N	DIETHYL SULFATE	84-67-5	1		Y	N
ACROLEIN	107-02-8	0.04		Y	N	CHLORAMBEN	133-90-4	1		Y	Y	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	5	P	Y	N
ACRYLAMIDE	79-06-1	0.02		Y	N	CHLORDANE	57-74-9	0.01		Y	Y	DIMETHOXYBENZIDINE, [3,3-]	119-90-4	0.1	V	Y	N
ACRYLIC ACID	79-10-7	0.6		Y	N	CHLORINE	7782-50-5	0.1		N	N	DIMETHYL BENZIDINE, [3,3-]	119-93-7	0.008	V	Y	N
ACRYLONITRILE	107-13-1	0.3		Y	N	CHLOROACETIC ACID	79-11-8	0.1		Y	N	DIMETHYL CARBAMOYL CHLORIDE	78-44-7	0.02		Y	N
ALLYL CHLORIDE	107-05-1	1		Y	N	CHLOROACETOPHENONE, [2-]	532-27-4	0.08		Y	N	DIMETHYL FORMAMIDE	68-12-2	1		Y	N
AMINOBIHENYL, [4-]	92-67-1	1	V	Y	N	CHLORO BENZENE	108-90-7	10		Y	N	DIMETHYL HYDRAZINE, [1,1-]	57-14-7	0.008		Y	N
ANILINE	62-53-3	1		Y	N	CHLORO BENZILATE	510-15-6	0.4	V	Y	Y	DIMETHYL PHTHALATE	131-11-3	10		Y	N
ANISIDINE, [ORTHO-]	90-04-0	1		Y	N	CHLOROFORM	67-66-3	0.9		Y	N	DIMETHYL SULFATE	77-78-1	0.1		Y	N
ANTHRACENE	120-12-7	0.01	V	Y	N	CHLOROMETHYL METHYL ETHER	107-30-2	0.1		Y	N	DIMETHYLAMINOAZOBENZENE, [4-]	60-11-7	1		Y	N
ANTIMONY COMPOUNDS		5	H	N	Y	CHLOROPRENE	126-99-8	1		Y	N	DIMETHYLANILINE, [N-N]	121-69-7	1		Y	N
ANTIMONY PENTAFLUORIDE	7783-70-2	0.1	H	N	Y	CHROMIUM (VI) COMPOUNDS		0.002	L	N	Y	DINITRO-O-CRESOL, [4,6-] (Note 6)	534-52-1	0.1	E	Y	N
ANTIMONY POTASSIUM TARTRATE	28300-74-5	1	H	N	Y	CHROMIUM COMPOUNDS		5	L	N	Y	DINITROPHENOL, [2,4-]	51-28-5	1		Y	N
ANTIMONY TRIOXIDE	1309-84-4	1	H	N	Y	CHRYSENE	218-01-9	0.01	V	Y	N	DINITROTOLUENE, [2,4-]	121-14-2	0.02		Y	N
ANTIMONY TRISULFIDE	1345-04-6	0.1	H	N	Y	COBALT COMPOUNDS		0.1	M	N	Y	DIOXANE, [1,4-]	123-91-1	6		Y	N
ARSENIC COMPOUNDS		0.005	I	N	Y	COKE OVEN EMISSIONS	8007-45-2	0.03	N	Y	N	DIPHENYLHYDRAZINE, [1,2-]	122-66-7	0.09	V	Y	N
ASBESTOS	1332-21-4	0	A	N	Y	CRESOL, [META-]	108-39-4	1	B	Y	N	DIPHENYLMETHANE DIISOCYANATE, [4,4-]	101-68-8	0.1	V	Y	N
BENZ(A)ANTHRACENE	56-55-3	0.01	V	Y	N	CRESOL, [ORTHO-]	95-48-7	1	B	Y	N	EPICHLOROHYDRIN	106-89-8	2		Y	N
BENZENE	71-43-2	2		Y	N	CRESOL, [PARA-]	106-44-5	1	B	Y	N	ETHOXYETHANOL, [2-]	110-80-5	10	P	Y	N
BENZIDINE	92-87-5	0.0003	V	Y	N	CRESOLS (MIXED ISOMERS)	1319-77-3	1	B	Y	N	ETHOXYETHYL ACETATE, [2-]	111-15-9	5	P	Y	N
BENZO(A)PYRENE	50-32-8	0.01	V	Y	N	CUMENE	98-82-8	10		Y	N	ETHYL ACRYLATE	140-88-5	1		Y	N
BENZO(B)FLUORANTHENE	205-99-2	0.01	V	Y	N	CYANIDE COMPOUNDS		0.1	O	Y	N	ETHYL BENZENE	100-41-4	10		Y	N
BENZO(K)FLUORANTHENE	207-08-9	0.01	V	Y	N	DDE	72-55-9	0.01	V	Y	Y	ETHYL CHLORIDE	75-00-3	10		Y	N
BENZOTRICHLORIDE	98-07-7	0.006		Y	N	DI(2-ETHYLHEXYL) PHTHALATE, (DEHP)	117-81-7	5		Y	N	ETHYLENE GLYCOL	107-21-1	10		Y	N
BENZYL CHLORIDE	100-44-7	0.1		Y	N	DIAMINOTOLUENE, [2,4-]	95-80-7	0.02		Y	N	ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-78-2				
BERYLLIUM COMPOUNDS		0.008	J	N	Y	DIAZOMETHANE	334-88-3	1		Y	N	ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N
BERYLLIUM SALTS		2E-05	J	N	Y	DIBENZ(A,H)ANTHRACENE	53-70-3	0.01	V	Y	N	ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N
BIPHENYL, [1,1-]	92-52-4	10	V	Y	N	DIOXINS/FURANS		6E-07	D,V	Y	N	ETHYLENE OXIDE	75-21-8	0.1		Y	N
BIS(CHLOROETHYL)ETHER	111-44-4	0.06		Y	N	DIBENZOFURAN	132-64-9	5	V	Y	N	ETHYLENE THIOUREA	98-45-7	0.6		Y	N
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0003		Y	N	DIBROMO-3-CHLOROPROPANE, [1,2-]	98-12-8	0.01		Y	N	FORMALDEHYDE	50-00-0	2		Y	N
BROMOFORM	75-25-2	10		Y	N	DIBROMOETHANE, [1,2-]	106-93-4	0.1		Y	N	GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N
BROMOMETHANE	74-83-8	10		Y	N	DIBUTYL PHTHALATE	84-74-2	10		Y	Y	GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N
BUTADIENE, [1,3-]	106-99-0	0.07		Y	N	DICHLOROBENZENE, [1,4-]	106-46-7	3		Y	N	HEPTACHLOR	76-44-8	0.02		Y	N
BUTOXYETHANOL ACETATE, [2-]	112-07-2	5	P	Y	N	DICHLOROBENZIDENE, [3,3-]	91-94-1	0.2	V	Y	Y	HEXACHLOROBENZENE	118-74-1	0.01		Y	N
BUTYLENE OXIDE, [1,2-]	106-88-7	1		Y	N	DICHLOROETHANE, [1,1-]	75-34-3	1		Y	N	HEXACHLOROBUTADIENE	87-88-3	0.9		Y	N
CADMIUM COMPOUNDS		0.01	K	N	Y	DICHLOROETHANE, [1,2-]	107-08-2	0.8		Y	N	HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N
CALCIUM CYANAMIDE	156-82-7	10		Y	Y	DICHLOROETHYLENE, [1,1-]	75-35-4	0.4		Y	N	HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N
CAPROLACTAM (Delisted)	105-60-2					DICHLOROMETHANE	75-09-2	10		N	N	HEXACHLOROCYCLOHEXANE, [DELTA-]	319-86-8	0.01	F	Y	N

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Chemical	CAS #	SMAL (ton/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (ton/yr)	Group ID	VOC	PM	Chemical	CAS #	SMAL (ton/yr)	Group ID	VOC	PM	
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N	TRIMETHYLPENTANE, [2,2,4-]	540-84-1	5		Y	N	
HEXACHLOROETHANE	87-72-1	5		Y	N	NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N	URETHANE [ETHYL CARBAMATE]	51-79-6	0.8		Y	N	
HEXAMETHYLENE-,1,8-DIISOCYANATE	822-06-0	0.02		Y	N	NITROSO-N-METHYLUREA, [N-]	684-93-5	0.0002		Y	N	VINYL ACETATE	108-05-4	1		Y	N	
HEXAMETHYLPHOSPHORAMIDE	680-31-9	0.01		Y	N	OCTACHLORONAPHTHALENE	2234-13-1	0.01	V	Y	N	VINYL BROMIDE	593-60-2	0.6		Y	N	
HEXANE, [N-]	110-54-3	10		Y	N	PARATHION	56-38-2	0.1		Y	Y	VINYL CHLORIDE	75-01-4	0.2		Y	N	
HYDRAZINE	302-01-2	0.004		N	N	PCB [POLYCHLORINATED BIPHENYLS]	1338-36-3	0.009	X	Y	Y	XYLENE, [META-]	108-38-3	10	G	Y	N	
HYDROGEN CHLORIDE	7647-01-0	10		N	N	PENTACHLORONITROBENZENE	82-68-8	0.3		Y	N	XYLENE, [ORTHO-]	95-47-6	10	G	Y	N	
HYDROGEN FLUORIDE	7664-39-3	0.1		N	N	PENTACHLOROPHENOL	87-86-5	0.7		Y	N	XYLENE, [PARA-]	106-42-3	10	G	Y	N	
HYDROQUINONE	123-31-9	1	Y	Y	N	PHENOL	108-95-2	0.1		Y	N	XYLENES (MIXED ISOMERS)	1330-20-7	10	G	Y	N	
INDENO(1,2,3CD)PYRENE	193-39-5	0.01	V	Y	N	PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N							
ISOPHORONE	78-59-1	10		Y	N	PHOSGENE	75-44-5	0.1		Y	N							
LEAD COMPOUNDS		0.01	Q	N	Y	PHOSPHINE	7803-51-2	5		N	N							
LINDANE [GAMMA-HEXACHLOROCYCLOHEXANE]	58-89-9	0.01	F	Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N	Legend						
MALEIC ANHYDRIDE	108-31-6	1		Y	N	PHTHALIC ANHYDRIDE	85-44-9	5		Y	N	Group ID	Aggregate Group Name					
MANGANESE COMPOUNDS		0.8	R	N	Y	POLYCYCLIC ORGANIC MATTER		0.01	V	Y	N	A	Asbestos					
MERCURY COMPOUNDS		0.01	S	N	N	PROPANE SULTONE, [1,3-]	1120-71-4	0.03		Y	Y	B	Cresols/Cresylic Acid (isomers and mixtures)					
METHANOL	67-58-1	10		Y	N	PROPIOLACTONE, [BETA-]	57-57-8	0.1		Y	N	C	2,4 - D, Salts and Esters					
METHOXYCHLOR	72-43-5	10	V	Y	Y	PROPIONALDEHYDE	123-38-6	5		Y	N	D	Dibenzofurans, Dibenzodioxins					
METHOXYETHANOL, [2-]	109-86-4	10	P	Y	N	PROPOXUR [BAYGON]	114-28-1	10		Y	Y	E	4, 6 Dinitro-o-cresol, and Salts					
METHYL CHLORIDE	74-87-3	10		Y	N	PROPYLENE OXIDE	75-56-9	5		Y	N	F	Lindane (all isomers)					
METHYL ETHYL KETONE (Delisted)	78-93-3					PROPYLENEIMINE, [1,2-]	75-55-8	0.003		Y	N	G	Xylenes (all isomers and mixtures)					
METHYL HYDRAZINE	60-34-4	0.06		Y	N	QUINOLINE	91-22-5	0.006		Y	N	H	Antimony Compounds					
METHYL IODIDE	74-88-4	1		Y	N	QUINONE	108-51-4	5		Y	N	I	Arsenic Compounds					
METHYL ISOBUTYL KETONE	108-10-1	10		Y	N	RADIONUCLIDES		Note 1	Y	N	Y	J	Beryllium Compounds					
METHYL ISOCYANATE	624-83-9	0.1		Y	N	SELENIUM COMPOUNDS		0.1	W	N	Y	K	Cadmium Compounds					
METHYL METHACRYLATE	80-62-6	10		Y	N	STYRENE	100-42-5	1		Y	N	L	Chromium Compounds					
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N	STYRENE OXIDE	96-09-3	1		Y	N	M	Cobalt Compounds					
METHYLCYCLOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y	TETRACHLORODIBENZO-P-DIOXIN,[2,3,7,8]	1746-01-6	6E-07	D,V	Y	Y	N	Coke Oven Emissions					
METHYLENE BIS(2-CHLOROANILINE), [4,4-]	101-14-4	0.2	V	Y	Y	TETRACHLOROETHANE, [1,1,2,2-]	79-34-5	0.3		Y	N	O	Cyanide Compounds					
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N	TETRACHLOROETHYLENE	127-18-4	10		N	N	P	Glycol Ethers					
METHYLNAPHTHALENE, [2-]	91-57-6	0.01	V	Y	N	TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N	Q	Lead Compounds (except elemental Lead)					
MINERAL FIBERS		0	T	N	Y	TOLUENE	108-88-3	10		Y	N	R	Manganese Compounds					
NAPHTHALENE	91-20-3	10	V	Y	N	TOLUENE DIISOCYANATE, [2,4-]	584-84-9	0.1		Y	N	S	Mercury Compounds					
NAPHTHYLAMINE, [ALPHA-]	134-32-7	0.01	V	Y	N	TOLUIDINE, [ORTHO-]	95-53-4	4		Y	N	T	Fine Mineral Fibers					
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N	TOXAPHENE	8001-35-2	0.01		Y	N	U	Nickel Compounds					
NICKEL CARBONYL	13463-39-3	0.1	U	N	Y	TRICHLOROBENZENE, [1,2,4-]	120-82-1	10		Y	N	V	Polycyclic Organic Matter					
NICKEL COMPOUNDS		1	U	N	Y	TRICHLOROETHANE, [1,1,1-]	71-55-6	10		N	N	W	Selenium Compounds					
NICKEL REFINERY DUST		0.08	U	N	Y	TRICHLOROETHANE, [1,1,2-]	79-00-5	1		Y	N	X	Polychlorinated Biphenyls (Aroclors)					
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y	TRICHLOROETHYLENE	79-01-6	10		Y	N	Y	Radionuclides					
NITROBENZENE	98-95-3	1		Y	N	TRICHLOROPHENOL, [2,4,5-]	95-95-4	1		Y	N							
NITROBIPHENYL, [4-]	92-93-3	1	V	Y	N	TRICHLOROPHENOL, [2,4,6-]	88-06-2	6		Y	N							
NITROPHENOL, [4-]	100-02-7	5		Y	N	TRIETHYLAMINE	121-44-8	10		Y	N	Note 1	The SMAL for radionuclides is defined as the effective dose equivalent to 0.3 millirems per year for 7 years exposure associated with a cancer risk of 1 in 1 million					
NITROPROPANE, 1,2-	79-46-9	1		Y	N	TRIFLURALIN	1582-09-8	9		Y	Y							