

## TEVA 30 Novopharm Court, Toronto - ESDM Report (2019)

## Emission Summary Table

Contaminant	CAS No.	Total Facility Emission Rate (g/s)	Air Dispersion Model Used	Maximum POI Concentration (ug/m <sup>3</sup> )	Averaging Period (hours)	MECP Limit (ug/m <sup>3</sup> )	Limiting Effect	Source (1)	Category	Percentage of MECP Limit (%)
Nitrogen Oxides (NOx)	10102-44-0	2.5E-01	AERMOD	52.1	1	400	Health	Standard	B1	13%
		2.5E-01	AERMOD	36.6	24	200	Health	Standard	B1	18%
Particulate Matter	N/A	2.8E-04	AERMOD	0.09	24	120	Visibility	Standard	B1	< 1%
2-Chloroethanol	107-07-3	1.5E-04	AERMOD	0.0	24	2	Health	SL-JSL	B2	3%
2-Methylpentane	107-83-5	3.1E-04	AERMOD	0.1	24	1,750	Health	SL-JSL	B2	< 1%
4-Methyl-2-Pentonal	108-11-2	1.1E-04	AERMOD	0.0	24	500	Health	SL-JSL	B2	< 1%
Diisopropyl Ether	108-20-3	1.6E-04	AERMOD	0.1	24	110,000	Health	Guideline	B1	< 1%
Pentane	109-66-0	6.2E-06	AERMOD	0.00	24	35,500	Health	SL-JSL	B2	< 1%
2-Methoxyethanol	109-86-4	1.9E-06	AERMOD	0.00	24	20	Health	SL-JSL	B2	< 1%
Diethylamine	109-89-7	2.8E-04	AERMOD	0.2	1	2,910	Health	Guideline	B1	< 1%
Tetrahydrofuran	109-99-9	8.0E-03	AERMOD	2.6	24	93,000	Odour	Guideline	B1	< 1%
Hexane	110-54-3	2.4E-03	AERMOD	0.8	24	7,500	Health	Standard	B1	< 1%
Cyclohexane	110-82-7	1.1E-04	AERMOD	0.0	24	6,100	Health	Standard	B1	< 1%
Pyridine	110-86-1	4.5E-04	AERMOD	0.6	10-minute	80	Odour	Guideline	B1	< 1%
		1.5E-04	AERMOD	0.1	24	150	Health	Guideline	B1	< 1%
2-(2-Methoxyethoxy) Ethanol	111-77-3	1.1E-03	AERMOD	0.4	24	1,200	Health	Guideline	B1	< 1%
Ethylene Glycol Monoethyl Ether	111-90-0	1.6E-03	AERMOD	2.1	10-minute	1,100	Odour	Guideline	B1	< 1%
Triethylamine	121-44-8	3.0E-04	AERMOD	0.1	24	35	Health	SL-MD	B2	< 1%
4-Hydroxy-4-methyl-2-pentanone	123-42-2	1.2E-06	AERMOD	0.0	10-minute	1,350	Odour	Guideline	B1	< 1%
Isoamyl Alcohol	123-51-3	8.9E-06	AERMOD	0.00	24	365	Health	SL-JSL	B2	< 1%
p-Dioxane	123-91-1	9.2E-05	AERMOD	0.0	24	3,500	Health	Guideline	B1	< 1%
Dimethylacetamide	127-19-5	1.3E-03	AERMOD	0.4	24	300	Health	Guideline	B1	< 1%
Xylene, mixture of Isomers	1330-20-7	1.6E-03	AERMOD	2.1	10-minute	3,000	Odour	Guideline	B1	< 1%
Ethyl Acetate	141-78-6	2.4E-04	AERMOD	0.2	1	19,000	Odour	Guideline	B1	< 1%
Heptane	142-82-5	4.5E-03	AERMOD	1.5	24	11,000	Health	Standard	B1	< 1%
Methyl-t-Butyl Ether	#####	6.7E-05	AERMOD	0.0	24	7000	Health	Guideline	B1	< 1%
2-methyl-2-butane	513-35-9	4.7E-08	AERMOD	0.00002	24	530	Health	SL-JSL	B2	< 1%
Ethyl Ether	60-29-7	2.1E-03	AERMOD	2.8	10-minute	950	Odour	Guideline	B1	< 1%
Ethyl Alcohol	64-17-5	8.3E-03	AERMOD	6.5	1	19,000	Odour	Guideline	B1	< 1%
Acetic Acid	64-19-7	2.9E-03	AERMOD	1.0	24	2,500	Odour	Guideline	B1	< 1%
Methanol	67-56-1	2.7E-01	AERMOD	89.1	24	4,000	Health	Standard	B1	2%
Isopropyl alcohol	67-63-0	6.5E-02	AERMOD	23.7	24	7,300.0	Health	Standard	B1	< 1%
Acetone	67-64-1	3.9E-03	AERMOD	1.3	24	11,880	Health	Standard	B1	< 1%

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Chloroform	67-66-3	1.3E-03	AERMOD	0.4	24	1	Health	Standard	B1	43%
Dimethylformamide	68-12-2	3.3E-03	AERMOD	1.1	24	150	Health	SL-JSL	B2	< 1%
2-Methylimidazole	693-98-1	2.4E-04	AERMOD	0.08	24	5	Health	SL-JSL	B2	2%
Propanol	71-23-8	2.3E-03	AERMOD	0.7	24	16,000	Health	Guideline	B1	< 1%
n-Butyl	71-36-3	2.6E-03	AERMOD	3.4	10-minute	2,100	Odour	Guideline	B1	< 1%
Benzene	71-43-2	7.8E-06	AERMOD	0.0007	Annual	0.45	Health	Standard	B1	< 1%
Sulfur Dioxide	7446-09-5	1.4E-03	AERMOD	1.1	1	690	Health &	Standard	B1	< 1%
		4.7E-04	AERMOD	0.08	24	275	Health &	Standard	B1	< 1%
Acetonitrile	75-05-8	1.0E-01	AERMOD	33.5	24	70	Health	Standard	B1	48%
Methylene Chloride	75-09-2	1.4E-03	AERMOD	0.5	24	220	Health	Standard	B1	< 1%
tert-Butyl Alcohol	75-65-0	2.8E-05	AERMOD	0.01	24	30,300	Health	Guideline	B1	< 1%
Perchloric Acid	7601-90-3	1.0E-04	AERMOD	0.04	24	40	Health	SL-MD	B2	< 1%
Hydrochloric acid	7647-01-0	1.8E-02	AERMOD	5.9	24	20	Health	Standard	B1	29%
Ammonium	7664-41-7	5.3E-04	AERMOD	0.2	24	100	Health	Standard	B1	< 1%
Nitric Acid	7697-37-2	8.6E-04	AERMOD	0.3	24	35	Corrosion	Standard	B1	< 1%
Isopentane	78-78-4	5.0E-07	AERMOD	0.000	24	35500	Health	SL-JSL	B2	< 1%
iso-Butanol	78-83-1	1.3E-03	AERMOD	1.7	10-minute	2,340	Odour	Guideline	B1	< 1%
sec-Butyl Alcohol	78-92-2	7.3E-04	AERMOD	0.239	24	1500	Health	SL-JSL	B2	< 1%
Methyl Ethyl Ketone	78-93-3	1.4E-04	AERMOD	0.047	24	1000	Health	Standard	B1	< 1%
Petroleum Ether	8032-32-4	1.6E-04	AERMOD	0.1	24	2,600.0	Health	Standard	B1	< 1%
N-Methyl-2-Pyrrolidone	872-50-4	4.1E-04	AERMOD	0.3	1	40,000	Health	Guideline	B1	< 1%
3-Methylpentane	96-14-0	6.0E-04	AERMOD	0.2	24	1750	Health	SL-JSL	B2	< 1%
Methylcyclopentane	96-37-7	6.0E-04	AERMOD	0.2	24	3500	Health	SL-JSL	B2	< 1%
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Colloidal Silicon Dioxide (AEROSIL 200) (TV)	112945-52-5	1.6E-06	AERMOD	0.00	24	10	Health	SL-JSL	B2	< 1%
Kolliphor P 407 (Poloaxamer)	151-21-3	3.1E-06	AERMOD	0.00	24	15	Health &	SL-JSL	B2	< 1%
Ibuprofen	15687-27-1	2.8E-04	AERMOD	0.09	24	2.5	Health	SL-JSL	B2	4%
Haloperidol	52-86-8	2.8E-04	AERMOD	0.09	24	0.1	Health	Guideline	B1	92%
MAGNESIUM STEARATE	557-04-0	3.9E-06	AERMOD	0.00	24	35	Health	Guideline	B1	< 1%
Metoprolol Tartrate	56392-17-7	2.8E-04	AERMOD	0.09	24	15	Health &	SL-JSL	B2	< 1%
LACTOSE MONOHYDRATE	63-42-3	3.0E-05	AERMOD	0.01	24	120	Health &	SL-MD	B2	< 1%
Famotidine	76824-35-6	2.8E-04	AERMOD	0.09	24	15	Health &	SL-JSL	B2	< 1%

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POVIDONE	9003-39-8	1.1E-05	AERMOD	0.003	24	20	Health	SL-JSL	B2	< 1%
MICROCRYSTALLINE CELLULOSE (VIVAPUR 101)	9004-34-6	1.5E-04	AERMOD	0.05	24	120	Health	SL-JSL	B2	< 1%
Corn Starch	9005-25-8	2.8E-05	AERMOD	0.01	24	120	Health	SL-JSL	B2	< 1%
1,2-Dichloroethane	107-06-2	2.2E-04	AERMOD	0.07	24	2	Health	Standard	B1	4%
4-methyl-2-pentanone	108-10-1	2.8E-04	AERMOD	0.09	24	1200	Odour	Guideline	B1	< 1%
Toluene	108-88-3	2.7E-04	AERMOD	0.09	24	2000	Odour	Guideline	B1	< 1%
Tetramethylammonium hydroxide	75-59-2	3.1E-06	AERMOD	0.00	24	1	Health	SL-JSL	B2	< 1%
Mineral oil	8042-47-5	7.4E-06	AERMOD	0.00	24	120	Health &	SL-MD	B2	< 1%

**Notes:**

(1) The POI limits and screening levels in MECP new guide "Air Contaminants Benchmarks List (ACB List): standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants" are used as the criteria.

SL-JSL: Jurisdictional Screening Level; SL-MD: Ministry-derived Screening Levels; SL-PA: Previously Accepted Screening Levels

(2) If there are no related MECP standards for contaminants, a de-minimus evaluation approach was used to assess the significance of these contaminants. Based on Table B-2A in Appendix B of the MECP ESDM Procedure Document, a substance that does not have a MECP POI limit and is not listed in Table B-2B, it can be considered insignificant if its predicted impact is below 0.1 ug/m<sup>3</sup> for a 24-hour average period.