	APPENDIX D. GASOLINE BLENDING STREAMS CATEGORY DATA MATRIX														
	64741-41-9	64741-46-4	64741-54-4	64741-55-5	64741-63-5	64741-66-8	64741-68-0	64741-70-4	64741-83-9	64741-87-3	68919-37-9	68955-35-1	Unleaded Gasoline		
	Naphtha, petroleum, heavy straight run	Naphtha, petroleum, light straignt-run	Naphtha, petroleum, heavy catalytic cracked	Naphtha, petroleum, light catalytic cracked	Naphtha, petroleum, light catalytic reformed	Naphtha, petroleum, light alkylate	Naphtha, petroleum, heavy catalytic reformed	Naphtha, petroleum, isomerized	Naphtha, petroleum, heavy thermal cracked	Naphtha, petroleum, sweetened	Naphtha, petroleum, full- range reformed	Naphtha, petroleum, catalytic reformed	(no US TSCA CASRN; EU CASRN 86290-81-5)	Read Across Range to Untested Category Members	
Endpoint	Endpoint														
Melting Point ¹ (°C)						1		1						-138 - +13.2	
Boiling Point (°C)		49 - 177		37 - 168		37 - 175				39 - 114		58 - 200	34 - 220	37 - 200	
Vapor Pressure (hPa)		1290 - 9150	5930	5550	5500			7330 - 7860			4630			1290 - 9150	
Partition Coefficient		2.13 - 4.85		1.23 - 4	2.13 - 4.54	3.11 - 4.54						2.13 - 4.76	2.13 - 4.5	1.23 - 4.85	
Water Solubility ¹ (mg/L)														<1 - 2000	
	ENVIRONMENTAL FATE														
Photodegradation, OH ⁻ reaction															
T _{1/2} ¹ (h or d)		0.8 d - 16 d		1.4 h - 16 d	1.5 d - 16 d	1.1 d - 16 d						0.6 d - 16 d	0.8 d - 16 d	1.4 h - 16 d	
Stability in Water														"stable", hydrolysis unlikely	
Environ. Distribution ¹		97%+ to air		97%+ to air	97%+ to air	99%+ to air						97%+ to air	97%+ to air	97%+ to air	
Biodegradation classification	ready			inherently	inherently	inherently								inherently biodegradable	
l	I	Ī	I	Í	1	ENVIR	ONMENTAL EFFE	CTS	Ī	I	1	I	I	I	
Acute Fish		45 40	4.5	40	0.00 04	0.0		40					44 40	0.00 40	
(mg/L WAF loading rate) Acute Daphnia		15 - 18	15	46	2.09 - 34	8.2		10					11 - 16	2.09 - 46	
(mg/L WAF loading rate)		4.5 - 18	13	18	0.9	32		10					7.6 - 12	0.9 - 32	
Algae		4.5 - 10	13		0.5	32							7.0 12	0.5 52	
(mg/L WAF loading rate)		3.6 - 6.4	5.3 - 6.3	64	1.1 - 8.5	45		25 - >50					0.25 - 4.2	1.1 - 64	
(g, =, is asig .a.e,		0.0													
A - 1 - 1 - 1 - 3 \	1	1	I	l. a.a	1	1	ALTH EFFECTS ^{2,3,4} I	ı	1	l. a.a	1	l. a.a	l .	l. 0-0 - 000	
Acute (mg/m³)				LC50 > 5,300		LC50 > 5,000				LC50 > 5,000		LC50 > 5,200		LC50 > 5,000	
1 ' ' ' '	LOAEL = 13,650			LOAEL: 23,400	LOAEL = 27,750								LOAEL = 6,572	LOAEL: 6,572 – 27,800	
	NOAEL = 2,275			NOAEL: 7,700	NOAEL = 9,250	NOAEL = 8,102				_			•	NOAEL: 1,507 - 10,153	
Genotoxicity, in vitro	n.d.			negative		negative				negative		negative ⁵	negative 	negative ⁵	
Genotoxicity, in vivo	n.d.			negative	NO A EL	negative				negative		negative	negative	negative	
	NOAEL > 13,773			NOAEL >27,000	1	NOAEL > 25,000						NOAEL > 27750	·	NOAEL: 13,650 - 27,750	
z o r o ropinio man to monty (m.g/m.)	NOAEL > 13,773			NOAEL >27,000	NOAEL >27,750	NOAEL > 25,000						NOAEL > 5,970	NOAEL > 5,970	NOAEL: 5,970 - 27,750	
Carcinogenicity (mg/m ³)															
Inhalation													rats - negative	no read across	
Dermal (mouse skin painting)			positive	positive		negative	negative		positive	negative			mice - positive negative	no read across	

js/lt 18-July-08

blank cells = no data; value will be read across range

¹ Level 1 fugacity model output. Range of values based upon characteristics of individual hydrocarbon constituents.

² all studies via inhalation in rats unless otherwise noted

³ male rat light hydrocaron nephropathy excluded for NOAEL and LOAEL determinations: Halder et al., 1984 studies excluded for this reason

⁴ NOTE - when multiple studies for one CASRN, used key study

⁵ Untested streams with an aromatic content greater than 60% can be classified as negative without metabolic activation and equivocal/positive with metabolic activation.