

## HYDROCARBON SOLVENTS REGISTERED UNDER REACH - KEY DATA



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Substance Name	EC Number	REACH Registration Number	EU-CLP Classification - Health Hazard only (Note 1)	Basis for Classification (Note 2)	Volatility Band (kPa) In brackets: ECETOC TRA Vapour Pressure Bands (Note 3)	Composition Assumptions (%) AR = Aromatics AL = Aliphatics (Note 4)	Molecular Weight (Based on average % composition of Aliphatics and Aromatics)	RCP Limit Value (Based on average % composition of Aliphatics and Aromatics) (Note 5)	DNEL inhalation value - worker (Note 6)
<b>CATEGORY 1: C9 Aromatics (Note 9)</b>									
Hydrocarbons, C9, aromatics	918-668-5	01-2119455851-35	Aspiration Tox 1 (H304) STOT SE 3 (H335 + H336) [EUH066 skin defatting statement]	Industry recommendation	0.2 (Low)	C9 AR: 100	120	100	Long term systemic: 150 mg/m3
<b>CATEGORY 2: C10-C12 Aromatics (Note 9)</b>									
Hydrocarbons, C10, aromatics, >1% naphthalene	919-284-0	01-2119463588-24	Aspiration Tox 1 (H304) STOT SE 3 (H336) Carcinogenicity Cat 2 (H351) [EUH066 skin defatting statement]	Industry recommendation	0.065 (Low)	C10 AR: 100	134	100	Long term systemic: 151 mg/m3
Hydrocarbons, C10, aromatics, <1% naphthalene	918-811-1	01-2119463583-34	Aspiration Cat 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	0.09 (Low)	C10 AR: 100	134	100	Long term systemic: 151 mg/m3
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	922-153-0	01-2119451097-39	Aspiration Cat 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.003 (Low)	C11 AR: 5 methylnaphthalene C11 AR: 27 C12 AR: 24 C13 AR: 47	164	75	Long term systemic: 151 mg/m3
Hydrocarbons, C10-C13, aromatics, >1% naphthalene	926-273-4	01-2119451151-53	Aspiration Tox 1 (H304) Carcinogenicity Cat 2 (H351) [EUH066 skin defatting statement]	Industry recommendation	0.003 (Low)	C10 AR: 9 methylnaphthalene C11 AR: 36 naphthalene C11 AR: 9 C12 AR: 24 C13 AR: 22	157	75	Long term systemic: 151 mg/m3
<b>CATEGORY 3: C9-C14 Aliphatics (2-25% Aromatics)</b>									
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	927-344-2	01-2119463586-28	Aspiration Tox 1 (H304) STOT SE 3 (H336) STOT RE 1 (H372) [EUH066 skin defatting statement]	Industry recommendation	0.5 (Low)	C9: AL/AR: 37.5/12.5 C10: AL/AR: 37.5/12.5	133	300	Long term systemic 330 mg/m3
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-164-8	01-2119473977-17	Aspiration Tox 1 (H304) STOT RE 1 (H372) [EUH066 skin defatting statement]	Industry recommendation	0.05 (Low)	C10 AL/AR: 11.25/0.75 Diethyl benzene C10 AR: 3 C11 AL/AR: 26.25/5.75 2-methyl naphthalene C11 AR: 3 C12 AL/AR: 26.25/8.75 C13 AL/AR: 11.25/3.75	161	250	No inhalation hazard identified
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-446-0	01-2119458049-33	Aspiration Tox 1 (H304) STOT SE 3 (H336) STOT RE 1 (H372) [EUH066 skin defatting statement]	Industry recommendation	0.37 (Low)	C9 AL/AR: 11.25/3.75 C10 AL/AR: 26.25/8.75 C11 AL/AR: 26.25/8.75 C12 AL/AR: 11.25/3.75	147	300	Long term systemic 330 mg/m3
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	925-653-7	01-2119458869-15	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.025 (Low)	C11 AL/AR: 11.25/3.75 C12 AL/AR: 26.25/8.75 C13 AL/AR: 26.25/8.75 C14 AL/AR: 11.25/3.75	82	300	No inhalation hazard identified
<b>CATEGORY 4: C14-C20 Aliphatics (2-30% Aromatics) (Note 10)</b>									
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)	920-360-0	01-2119448343-41	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.001 (Low)	C14 AL/AR: 7/3 C15 AL/AR: 14/6 C16 AL/AR: 28/12 C17 AL/AR: 14/6 C18 AL/AR: 7/3	224	250	No inhalation hazard identified
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)	919-006-8	01-2119455996-19	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.001 (Low)	C16 AL/AR: 7/3 C17 AL/AR: 14/6 C18 AL/AR: 28/12 C19 AL/AR: 14/6 C20 AL/AR: 7/3	252	250	No inhalation hazard identified
<b>CATEGORY 5: C5 Aliphatics</b>									
Normal-Pentane	203-692-4	01-2119459286-30	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Harmonised	58 (High)	C5 AL: 100	72	1400	Long term systemic: 3000 mg/m3
Iso-Pentane	201-142-8	01-2119475602-38	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Harmonised	82 (High)	C5 AL: 100	72	1400	Long term systemic: 3000 mg/m3
Cyclopentane	206-016-6	01-2119463053-47	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	36 (High)	C5 AL: 100	72	1400	Long term systemic: 3000 mg/m3
Hydrocarbons, C5, n-alkanes, isoalkanes	921-577-3	01-2119474207-37	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	61 (High)	C5 AL: 100	72	1400	Long term systemic: 3000 mg/m3
<b>CATEGORY 6: C6 Aliphatics</b>									
Hydrocarbons, C5-C7, n-alkanes, isoalkanes, n-hexane rich	930-397-4	01-2119497828-14	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336) STOT RE 2 (H373) Reproductive Tox Cat 2 (H361F)	Industry recommendation	18.5 (High)	C5 AL: 25 nC6 AL: 50 C7 AL: 25	86	150	Long term systemic: 93 mg/m3
Hydrocarbons, C6, n-alkanes, isoalkanes, cyclics, n-hexane rich	925-292-5	01-2119474209-33	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (narcosis) (H336) STOT RE 2 (H373) Reproductive Tox Cat 2 (H361F)	Industry recommendation	47 at 25 deg C (High)	C6 AL: 50 nC6 AL: 50	100	150	Long term systemic: 93 mg/m3

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n-hexane	203-777-6	01-2119480412-44	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336) STOT RE 2 (H373) Reproductive Tox Cat 2 (H361F)	Harmonised	19 (High)	nC6 AL: 100	86	72	Long term systemic: 75 mg/m <sup>3</sup>
Hydrocarbons, C6, isoalkanes, <5% n-hexane (isohexane)	931-254-9	01-2119484651-34	Aspiration Tox 1 (H304), Skin Irritation 2 (H315) STOT SE 3 (H336)	Industry recommendation	25 (High)	C6 AL: 96 nC6 AL: 4	86	800	Long term systemic 5306 mg/m <sup>3</sup>
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	926-605-8	01-2119486291-36	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	11 (High)	C6 AL: 46 nC6 AL: 4 C7 AL: 50	93	800	Long term systemic 5306 mg/m <sup>3</sup>
<b>CATEGORY 7: C7-C9 Aliphatics</b>									
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane	924-168-8	01-2119472127-39	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336) STOT RE 2 (H373) Reproductive Tox Cat 2 (H361F)	Industry recommendation	11.7 (High)	C6 AL: 40 nC6 AL: 50 C7 AL: 50 (Note 7)	93	450	Long term systemic 145 mg/m <sup>3</sup>
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	921-024-6	01-2119475514-35	Aspiration Tox 1 (H304); Skin Irritation 2 (H315) STOT SE 3 (H336)	Industry recommendation	6 (Medium)	C6 AL: 17 nC6 AL: 3 C7 AL: 65 methyl cyclohex: 15	97	800	Long term systemic 2035 mg/m <sup>3</sup>
Hydrocarbons, C6-C10, n-alkanes, isoalkanes, >5% n-hexane	920-191-2	01-2119493387-24	Aspiration Cat 1 (H304) Skin Irritation Cat 2 (H315) STOT SE Cat 3 (H336) STOT RE Cat 2 (H373) Reproductive Tox Cat 2 (H361F)	Industry recommendation	7.8 (Medium)	C5 AL: 4 nC6 AL: 12 C6 AL: 6 C8 AL: 40 C10 AL: 38 (Note 8)	118	200	Long term systemic 230 mg/m <sup>3</sup>
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	927-510-4	01-2119475515-33	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Industry recommendation	6 (Medium)	C7 AL: 100	100	1400	Long term systemic 2085 mg/m <sup>3</sup>
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	01-2119473851-33	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	4.2 (Medium)	C7 AL: 25 C8 AL: 50 C9 AL: 25	114	1200	Long term systemic 2035 mg/m <sup>3</sup>
Hydrocarbons, C7-C8, n-alkanes	922-214-1	01-2120087944-41	Aspiration Cat 1 (H304) Skin Irritation Cat 2 (H315) STOT SE Cat 3 (H336)	Industry recommendation	2.5 (Medium)	C7 AL: 50 C8 AL: 50	107	1400	Long term systemic 2035 mg/m <sup>3</sup>
Hydrocarbons, C7-C8, cyclics	927-033-1	01-2119486992-20	Aspiration Cat 1 (H304) STOT SE 3 (H336)	Industry recommendation	2 (Medium)	C7 AL: 50 C8 AL: 50	107	1400	Long term systemic 2035 mg/m <sup>3</sup>
Hydrocarbons, C7-C9, isoalkanes	921-728-3	01-2119471305-42	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Industry recommendation	2 (Medium)	C7 AL: 25 C8 AL: 50 C9 AL: 25	114	1200	Long term systemic 2035 mg/m <sup>3</sup>
Heptane	205-563-8	01-2119457603-38	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Harmonised	6 (Medium)	C7 AL: 100	100	1400	Long term systemic 2085 mg/m <sup>3</sup>
Iso-Heptane	250-610-8	01-2119457601-42	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Harmonised	8.9 (Medium)	C6 AL: 2 nC6 AL: 3 C7 AL: 95	100	1000	Long term systemic 2085 mg/m <sup>3</sup>
Octane	203-892-1	01-2119463939-19	AspirationTox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Harmonised	1 (Medium)	C8 AL: 100	114	1400	Long term systemic 2035 mg/m <sup>3</sup>
2,2,4-trimethylpentane (Iso-Octane)	208-759-1	01-2119457965-22	AspirationTox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Harmonised	2.8 (Medium)	C8 AL: 100	114	1400	Long term systemic 2035 mg/m <sup>3</sup>
Nonane	203-913-4	01-2119463259-31	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Industry recommendation	0.55 (Medium)	C9 AL: 100	128	1000	Long term systemic 2035 mg/m <sup>3</sup>
<b>CATEGORY 8: C9-C14 Aliphatics &lt; 2% Aromatics</b>									
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	919-857-5	01-2119463258-33	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	0.3 (Low)	C9 AL: 25 C10 AL: 50 C11 AL: 25	142	1000	Long term systemic 871 mg/m <sup>3</sup>
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	927-241-2	01-2119471843-32	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	0.5 (Low)	C9 AL: 50 C10 AL: 50	135	1000	Long term systemic 871 mg/m <sup>3</sup>
Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatics	920-134-1	01-2119480153-44	Aspiration Tox 1 (H304) STOT SE 3 (H336) [EUH066 skin defatting statement]	Industry recommendation	0.3 (Low)	C9 AL: 25 C10 AL: 50 C11 AL: 25	142	1000	Long term systemic 871 mg/m <sup>3</sup>
Hydrocarbons, C9-C11, cyclics, <2% aromatics	925-894-8	01-2119472436-34	Aspiration Tox 1 (H304) Skin Irritation 2 (H315) STOT SE 3 (H336)	Industry recommendation	0.2 (Low)	C9 AL: 25 C10 AL: 50 C11 AL: 25	142	1000	Long term systemic 871 mg/m <sup>3</sup>
Decane	204-686-4	01-2119474199-26	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.135 (Low)	C10 AL: 100	142	1000	No inhalation hazard identified
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	918-481-9	01-2119457273-39	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.05 (Low)	C10 AL: 15 C11 AL: 35 C12 AL: 35 C13 AL: 15	163	1000	No inhalation hazard identified
Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics	918-317-6	01-2119474196-32	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.06 (Low)	C10 AL: 15 C11 AL: 35 C12 AL: 35 C13 AL: 15	163	1000	No inhalation hazard identified

3 vs 4 n-hexane

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Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	923-037-2	01-2119471991-29	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.02 (Low)	C10 AL: 25 C11 AL: 50 C12 AL: 25	156	1000	No inhalation hazard identified
Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics	929-018-5	01-2119475608-26	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	.044 (Low)	C10 AL: 15 C11 AL: 35 C12 AL: 35 C13 AL: 15	163	1000	No inhalation hazard identified
Hydrocarbons, C10-C14, n-alkanes, isoalkanes, < 2% aromatics	920-274-3	01-2119458951-30	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.116 at 38 deg C (Low)	C10 AL: 10 C11 AL: 20 C12 AL: 40 C13 AL: 20 C14 AL: 10	170	1000	No inhalation hazard identified
Undecane	214-300-6	01-2119486569-17	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.06 at 25 deg C (Low)	C10 AL: 100	156	1000	No inhalation hazard identified
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	918-167-1	01-2119472146-39	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.07 (Low)	C11 AL: 50 C12 AL: 50	163	1000	No inhalation hazard identified
Hydrocarbons, C11-C13, n-alkanes, <2% aromatics	942-924-5	01-2120101110-89	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.044 (Low)	C11 AL: 25 C12 AL: 50 C13 AL: 25	170	1000	No inhalation hazard identified
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	01-2119456810-40	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.04 (Low)	C11 AL: 25 C12 AL: 50 C13 AL: 25	170	1000	No inhalation hazard identified
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	01-2119456620-43	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.02 (Low)	C11 AL: 15 C12 AL: 35 C13 AL: 35 C14 AL: 15	177	1000	No inhalation hazard identified
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	927-285-2	01-2119480162-45	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.035 (Low)	C11 AL: 15 C12 AL: 35 C13 AL: 35 C14 AL: 15	177	1000	No inhalation hazard identified
Hydrocarbons, C11-C14, n-alkanes, < 2% aromatics	924-803-9	01-2119485647-22	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.035 (Low)	C11 AL: 15 C12 AL: 35 C13 AL: 35 C14 AL: 15	177	1000	No inhalation hazard identified
Dodecane	203-967-9	01-2119486573-28	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.02 at 25 deg C (Low)	C10 AL: 100	170	1000	No inhalation hazard identified
Isododecane (2,2,4,4,6,6-pentamethylheptane)	236-757-0	01-2119490725-29	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.1 at 25 deg C (Low)	C12 AL: 100	170	1000	No inhalation hazard identified
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	927-676-8	01-2119456377-30	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.006 (Low)	C12 AL: 10 C13 AL: 20 C14 AL: 40 C15 AL: 20 C16 AL: 10	198	1000	No inhalation hazard identified
Tridecane	211-093-4	01-2119487446-26	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.006 at 25 deg C (Low)	C10 AL: 100	184	1000	No inhalation hazard identified
Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	917-488-4	01-2119458943-27	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	< /> 0.05 at 25 deg C (Low)	C13 AL: 25 C14 AL: 50 C15 AL: 25	198	1000	No inhalation hazard identified
Tetradecane	211-096-0	01-2119485515-31	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	< 0.005 (Low)	C10 AL: 100	198	1000	No inhalation hazard identified
<b>CATEGORY 9: C14-C20 Aliphatics &lt; 2% Aromatics (Note 10)</b>									
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <2% aromatics	934-954-2	01-2119826592-36	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<= 0.004 (Low)	C13 AL: 15 C14 AL: 35 C15 AL: 35 C16 AL: 15	205	1000	No inhalation hazard identified
Hydrocarbons, C13-C16, isoalkanes, cyclics, <2% aromatics	918-973-3	01-2119458871-30	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.003 (Low)	C13 AL: 15 C14 AL: 35 C15 AL: 35 C16 AL: 15	205	1000	No inhalation hazard identified
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	928-253-0	01-2119496246-29	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.004 (Low)	C13 AL: 10 C14 AL: 15 C15 AL: 25 C16 AL: 25 C17 AL: 15 C18 AL: 10	247	1000	No inhalation hazard identified
Hydrocarbons, C14-C16, n-alkanes, < 2% aromatics	921-535-4	01-2119487513-33	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.005 (Low)	C14 AL: 15 C15 AL: 35 C16 AL: 35 C17 AL: 15	247	1000	No inhalation hazard identified
Hydrocarbons, C14-C17, n-alkanes, < 2% aromatics	917-828-1	01-2119487513-33	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.005 (Low)	C14 AL: 15 C15 AL: 35 C16 AL: 35 C17 AL: 15	247	1000	No inhalation hazard identified
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	927-632-8	01-2119457736-27	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.001 (Low)	C14 AL: 10 C15 AL: 20 C16 AL: 40 C17 AL: 20 C18 AL: 10	226	1000	No inhalation hazard identified
Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics	920-114-2	01-2119459347-30	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.001 (Low)	C14 AL: 10 C15 AL: 15 C16 AL: 25 C17 AL: 25 C18 AL: 15 C19 AL: 10	261	1000	No inhalation hazard identified

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Hydrocarbons, C14-C20 (even numbered), n-alkanes, isoalkanes, <2% aromatics	700-976-4	01-2119484870-30	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.005 (Low)	C14 AL: 10 C15 AL: 12.5 C16 AL: 17.5 C17 AL: 20 C18 AL: 17.5 C19 AL: 12.5 C20 AL: 10	240	1000	No inhalation hazard identified
Hydrocarbons, C14-C20, n-alkanes, <2% aromatics	923-583-1	01-2119485174-35	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.005 (Low)	C14 AL: 10 C15 AL: 12.5 C16 AL: 17.5 C17 AL: 120 C18 AL: 17.5 C19 AL: 12.5 C20 AL: 10	240	1000	No inhalation hazard identified
Pentadecane	211-098-1	01-2119977102-41	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<=0.001 at 25 deg C (Low)	C15 AL: 100	212	1000	No inhalation hazard identified
Hexadecane	208-878-9	01-2119936836-25	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<0.0004 (Low)	C16 AL: 100	226	1000	No inhalation hazard identified
Hydrocarbons, C4, 1,3-butadiene-free, polymd., tetraisobutylene fraction, hydrogenated (New name: 2,2,4,4,6,6,8,8-heptamethylnonane)	297-628-2 (224-506-8)	01-2119486102-45	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<0.001 (Low)	C14 AL: 10 C15 AL: 20 C16 AL: 40 C17 AL: 20 C18 AL: 10	226	1000	No inhalation hazard identified
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	919-029-3	01-2119457735-29	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<0.001 (Low)	C16 AL: 10 C17 AL: 20 C18 AL: 40 C19 AL: 20 C20 AL: 10	254	1000	No inhalation hazard identified
n-Heptadecane	211-108-4	01-2120759940-46	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	0.00002 (Negligible)	C17 AL: 100	240	1000	No inhalation hazard identified
Octadecane	209-790-3	01-2119936912-33	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<0.00003 (Negligible)	C18 AL: 100	254	1000	No inhalation hazard identified
Icosane (Eicosane)	204-018-1	01-2119938337-31	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<0.00001 (Negligible)	C20 AL: 100	282	1000	No inhalation hazard identified
Isoicosane (Hydrocarbons, C4, 1,3-butadiene-free, polymd., pentaisobutylene fraction, hydrogenated) Eicosane, branched	297-627-7	01-2119987314-30	Aspiration Tox 1 (H304) [EUH066 skin defatting statement]	Industry recommendation	<1 at 38 deg C	C20 AL: 100	282	1000	No inhalation hazard identified

Note 1: H phrases given ESIG BPG Managing Health Risks of Solvents, Appendix 2

Note 2: Harmonised values are from Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Note 3: ECETOC TRA VP values for Workers (VP at 20 deg C (kPa):

High: &gt;10

Medium: &gt;0.5 - 10

Low: &lt;= 0.5

Negligible: &lt;0.00001

Note 4: Average % compositions derived from Hydrocarbon Block methodology and 2016 compositional information for constituents of concern

Note 5: Refer to Section 3.3 for details on the Reciprocal Calculation Procedure (RCP) for HCS

Note 6: Refer to Section 3.5 for details on Derived No Effect Levels (DNELs) for HCS

Note 7: Composition adjusted based on Vapour Pressure differences: n-Hexane = 12%; Isohexane = 71%; C7 = 17%

Note 8: For this solvent the vapour pressure difference between n-hexane and C9-C10 aliphatics is too large, the mass% cannot be used to calculate the RCP. Instead the mol fractions must be used to calculate partial vapour pressures. ☐

The following parameters were used, for vapour pressure at 25 deg C:

pentane = 68 kPa (4%)

iso-hex = 30 kPa (6%)

n-hex = 19.7 kPa (12%)

C7-S = 2 kPa (40%)

C9 = &lt;1%

C10 = 0.2 kPa (38%)

Based on the given fractions and partial vapour pressures, the total Vapour Pressure of the solvent is 7.76 kPa

For the RCP calculation and based on Dalton's law the nominal percentages liquid phase are corrected to:

pentane = 35%

iso hex = 23%

n-hex = 30%

C7-C8 = 10%

C10 = 2%

So instead of using the nominal composition of the solvent it is necessary to use the calculated vapour phase fractions to re-calculate the RCP, which is 200 and not 400 mg/m3

Note 9: For GGV C9 - C15 Aromatics. Aromatics with more than 2 rings are not commonly found at more than trace levels in hydrocarbon solvents because of their higher boiling points.

Note 10: Carbon numbers &gt; C15 do not contribute significantly to overall vapour exposure because of their very low vapour pressures. However, the potential for aerosol exposure must be considered