

## Hydrocarbon Solvents REACH REGISTRATIONS CAS - EC number relationship

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| HSPA Category                      | HSPA Substance Name   | Reach Registration provisional EC No. | Related CAS No.(s) | Related CAS No.(s) Substance Name  |
|------------------------------------|---|---------------------------------------|--------------------|--|
| C9 Aromatics                       | Hydrocarbons, C9, aromatics   | 918-668-5                             | 64742-95-6         | Solvent naphtha (petroleum), light aromatic  |
| C10-12 Aromatics                   | Hydrocarbons, C10, aromatics, >1% naphthalene                             | 919-284-0                             | 64742-94-5         | Solvent naphtha (petroleum), heavy aromatic  |
| C10-12 Aromatics                   | Hydrocarbons, C10, aromatics, <1% naphthalene                             | 918-811-1                             | 64742-94-5         | Solvent naphtha (petroleum), heavy aromatic  |
| C10-12 Aromatics                   | Hydrocarbons, C10-C13, aromatics, <1% naphthalene                         | 922-153-0                             | 64742-94-5         | Solvent naphtha (petroleum), heavy aromatic  |
| C10-12 Aromatics                   | Hydrocarbons, C10-C13, aromatics, >1% naphthalene                         | 926-273-4                             | 64742-94-5         | Solvent naphtha (petroleum), heavy aromatic  |
| C9-14 Aliphatics (2-25% aromatics) | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)  | 927-344-2                             | 64742-82-1         | Naphtha (petroleum), hydrodesulfurized heavy   |
| C9-14 Aliphatics (2-25% aromatics) | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%) | 919-164-8                             | 64742-82-1         | Naphtha (petroleum), hydrodesulfurized heavy   |
| C9-14 Aliphatics (2-25% aromatics) | Hydrocarbons, C8-12, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)   | 928-136-4                             | 64742-82-1         | Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha |
| C9-14 Aliphatics (2-25% aromatics) | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)  | 919-446-0                             | 64742-82-1         | Naphtha (petroleum), hydrodesulfurized heavy   |
|                                    |   |                                       | 64742-88-7         | Solvent naphtha (petroleum), medium aliphatic  |
| C9-14 Aliphatics (2-25% aromatics) | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%) | 925-653-7                             | 64742-81-0         | Kerosine (petroleum), hydrodesulfurized  |
| C14-20 Aliphatics (2-30% aromatic) | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | 920-360-0                             | 64741-44-2         | Distillates (petroleum), straight-run middle   |
|                                    |   |                                       | 64742-13-8         | Distillates (petroleum), acid-treated middle   |
|                                    |   |                                       | 64742-81-0         | Kerosine (petroleum), hydrodesulfurized  |
|                                    |   |                                       | 64742-80-9         | Distillates (petroleum), hydrodesulfurized middle  |
|                                    |   |                                       | 64741-77-1         | Distillates (petroleum), light hydrocracked  |
|                                    |   |                                       | 64741-76-0         | Distillates (petroleum), heavy hydrocracked  |
| C14-20 Aliphatics (2-30% aromatic) | Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %) | 919-006-8                             | 64741-44-2         | Distillates (petroleum), straight-run middle   |
|                                    |   |                                       | 64742-13-8         | Distillates (petroleum), acid-treated middle   |
|                                    |   |                                       | 68915-96-8         | Distillates (petroleum), heavy straight-run  |
|                                    |   |                                       | 64742-80-9         | Distillates (petroleum), hydrodesulfurized middle  |
|                                    |   |                                       | 64742-80-9         | Distillates (petroleum), hydrodesulfurized middle  |
|                                    |   |                                       | 64741-77-1         | Distillates (petroleum), light hydrocracked  |
|                                    |   |                                       | 64741-76-0         | Distillates (petroleum), heavy hydrocracked  |

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|-----------------|--|---------------------------------------|--------------------|---|
| C5 Aliphatics   | Normal-Pentane   | 203-692-4                             | 109-66-0           | Pentane   |
| C5 Aliphatics   | ISO-Pentane  | 201-142-8                             | 78-78-4            | 2-methylbutane  |
| C5 Aliphatics   | Cyclopentane   | 206-016-6                             | 287-92-3           | Cyclopentane  |
| C5 Aliphatics   | Hydrocarbons, C5, n-alkanes, isoalkanes                            | 921-577-3                             | 109-66-0           | Pentane   |
|                 |  |                                       | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
|                 |  |                                       | 68476-55-1         | Hydrocarbons, C5-rich                                       |
| C6 Aliphatics   | Normal-Hexane  | 203-777-6                             | 92112-69-1         | Hexane,-branched-and-linear-                                |
|                 |  |                                       | 110-54-3           | Hexane  |
| C6 Aliphatics   | Hydrocarbons, C6, isoalkanes, <5% n-hexane                         | 931-254-9                             | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
| C6 Aliphatics   | Hydrocarbons, C6, n-alkanes, isoalkanes, cyclics, n-hexane rich    | 925-292-5                             | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
|                 |  |                                       | 93165-19-6         | Distillates (petroleum), C6-rich                            |
|                 |  |                                       | 92112-69-1         | Hexane,-branched-and-linear-                                |
| C6 Aliphatics   | Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane            | 926-605-8                             | 92062-15-2         | Solvent naphtha (petroleum), hydrotreated light naphthenic  |
|                 |  |                                       | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
| C6 Aliphatics   | Hydrocarbons, C5-C7, n-alkanes, isoalkanes, n-hexane rich          | 930-397-4                             | 64771-72-8         | Paraffins (petroleum), normal C5-20                         |
| C7-9 Aliphatics | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics                   | 927-510-4                             | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
|                 |  |                                       | 92045-53-9         | Naphtha (petroleum), hydrodesulphurized light, dearomatized |
|                 |  |                                       | 142-82-5           | Heptane   |
|                 |  |                                       | 108-87-2           | Cyclohexane, Methyl -                                       |
| C7-9 Aliphatics | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, > 5% n-hexane | 924-168-8                             | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
|                 |  |                                       | 64742-89-8         | Solvent naphtha (petroleum), light aliph.                   |
| C7-9 Aliphatics | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | 921-024-6                             | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
|                 |  |                                       | 64741-84-0         | Naphtha (petroleum), solvent-refined light                  |
| C7-9 Aliphatics | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics                | 920-750-0                             | 64742-49-0         | Naphtha (petroleum), hydrotreated light                     |
|                 |  |                                       | 64771-72-8         | Paraffins (petroleum), normal C5-20                         |
| C7-9 Aliphatics | Hydrocarbons, C6-C10, n-alkanes, isoalkanes, > 5% n-hexane         | 920-191-2                             | 90622-50-7         | Alkanes, C4-10-branched and linear                          |
| C7-9 Aliphatics | Hydrocarbons, C7-C9, isoalkanes                                    | 921-728-3                             | 90622-56-3         | Alkanes, C7-10-iso-   |
|                 |  |                                       | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy                     |
|                 |  |                                       | 70024-92-9         | Alkanes, C7-C8 iso  |
| C7-9 Aliphatics | Hydrocarbons, C7-C8, cyclics                                       | 927-033-1                             | 1678-91-7          | Cyclohexane, Ethyl -  |
|                 |  |                                       | 108-87-2           | Cyclohexane, Methyl -                                       |
|                 |  |                                       | 583-57-3           | 1,2-Dimethylcyclohexane                                     |
| C7-9 Aliphatics | Methyl cyclohexane   | 203-624-3                             | 108-87-2           | Cyclohexane, Methyl -                                       |
| C7-9 Aliphatics | Normal-Heptane   | 205-563-8                             | 142-82-5           | Heptane   |
| C7-9 Aliphatics | Iso-Heptane  | 250-610-8                             | 31394-54-4         | Isoheptane  |
| C7-9 Aliphatics | Normal-Octane  | 203-892-1                             | 111-65-9           | Octane  |
| C7-9 Aliphatics | Iso-Octane   | 208-759-1                             | 540-84-1           | 2,2,4-Trimethylpentane                                      |
| C7-9 Aliphatics | Nonane   | 203-913-4                             | 111-84-2           | Nonane  |

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| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics  | 919-857-5                             | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
|                                  |   |                                       | 64771-72-8         | Paraffins (petroleum), normal C5-20   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics  | 927-241-2                             | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
|                                  |   |                                       | 64742-49-0         | Naphtha (petroleum), hydrotreated light   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C9-C11, isoalkanes, cyclics, < 2% aromatics             | 920-134-1                             | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
|                                  |   |                                       | 68551-16-6         | Alkanes, C9-11 iso  |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 918-481-9                             | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C10-C13, isoalkanes, cyclics, < 2% aromatics            | 918-317-6                             | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
|                                  |   |                                       | 68551-19-9         | Alkanes, C12-14-iso-  |
|                                  |   |                                       | 90622-57-4         | Alkanes, C9-12-iso-   |
|                                  |   |                                       | 68551-17-7         | Alkanes, C10-13 iso   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 926-141-6                             | 64742-47-8         | Distillates (petroleum), hydrotreated light   |
|                                  |   |                                       | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 917-488-4                             | 64742-47-8         | Distillates (petroleum), hydrotreated light   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C12-C16, isoalkanes, cyclics, < 2% aromatics            | 927-676-8                             | 64742-47-8         | Distillates (petroleum), hydrotreated light   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 920-107-4                             | 64742-47-8         | Distillates (petroleum), hydrotreated light   |
|                                  |   |                                       | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics            | 927-285-2                             | 64742-47-8         | Distillates (petroleum), hydrotreated light   |
|                                  |   |                                       | 90622-58-5         | Alkanes, C11-15-iso-  |
|                                  |   |                                       | 68551-17-7         | Alkanes, C10-13-iso-  |
|                                  |   |                                       | 68551-19-9         | Alkanes, C12-14 iso   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics                     | 923-037-2                             | 90622-57-4         | Alkanes, C9-12-iso-   |
|                                  |   |                                       | 64741-65-7         | Naphtha (petroleum), heavy alkylate   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics                     | 918-167-1                             | 90622-58-5         | Alkanes, C11-15-iso-  |
|                                  |   |                                       | 90622-57-4         | Alkanes, C9-12-iso-   |
|                                  |   |                                       | 64741-65-7         | Naphtha (petroleum), heavy alkylate   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics                     | 920-901-0                             | 90622-58-5         | Alkanes, C11-15-iso-  |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics                      | 929-018-5                             | 93924-07-3         | Alkanes, C10-14   |
|                                  |   |                                       | 64771-72-8         | Paraffins (Petroleum), normal C5-20   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C11-C14, n-alkanes, < 2% aromatics                      | 924-803-9                             | 64771-72-8         | Paraffins (petroleum), normal C5-20   |
|                                  |   |                                       | 93924-07-3         | Alkanes, C10-14   |
|                                  |   |                                       | 64771-71-7         | Paraffins (petroleum), normal C>10  |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C9-C11, cyclics, < 2% aromatics                         | 925-894-8                             | 64742-48-9         | Naphtha (petroleum), hydrotreated heavy   |
| C9-14 Aliphatics (<=2% aromatic) | Decane  | 204-686-4                             | 124-18-5           | Decane  |
|                                  |   |                                       | 93924-07-3         | Alkanes, C10-14   |
| C9-14 Aliphatics (<=2% aromatic) | Undecane  | 214-300-6                             | 1120-21-4          | Undecane  |
|                                  | Dodecane  | 203-967-9                             | 112-40-3           | Dodecane  |
| C9-14 Aliphatics (<=2% aromatic) | Tridecane   | 211-093-4                             | 629-50-5           | Tridecane   |
|                                  | Tetradecane   | 211-096-0                             | 629-59-4           | Tetradecane   |
| C9-14 Aliphatics (<=2% aromatic) | Isododecane   | 297-629-8                             | 93685-81-5         | Hydrocarbons, C4, 1,3-butadiene-free, polymd., trisobutylene fraction, hydrogenated |
|                                  |   |                                       | 31807-55-3         | Isododecane   |
| C9-14 Aliphatics (<=2% aromatic) | Hydrocarbons, C10-C14, n-alkanes, isoalkanes, <2% aromatic            | 920-274-3                             | 93924-07-3         | Alkanes, C10-14   |

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| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 928-253-0                                  | 64742-47-8         | Distillates (petroleum), hydrotreated light  |
|  |   |  | 64742-46-7         | Distillates (petroleum), hydrotreated middle   |
| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 927-632-8                                  | 64741-91-9         | Distillates (petroleum), solvent-refined middle  |
|  |   |  | 64742-47-8         | Distillates (petroleum), hydrotreated light  |
|  |   |  | 64742-46-7         | Distillates (petroleum), hydrotreated middle   |
| C14-20 Aliphatics (<=2% aromatic)Hydrocarbons, | C16-C20, n-alkanes, isoalkanes, cyclics, < 2% aromatics               | 919-029-3                                  | 64741-91-9         | Distillates (petroleum), solvent-refined middle  |
|  |   |  | 64742-46-7         | Distillates (petroleum), hydrotreated middle   |
| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C13-C16, isoalkanes, cyclics, < 2% aromatics            | 918-973-3                                  | 64742-47-8         | Distillates (petroleum), hydrotreated light  |
|  |   |  | 68551-20-2         | Alkanes, C13-16 iso  |
| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C14-C19, isoalkanes, cyclics, < 2% aromatics            | 920-114-2                                  | 64742-46-7         | Distillates (petroleum), hydrotreated middle   |
|  |   |  | 64742-55-8         | Distillates (petroleum), hydrotreated light paraffinic                                 |
| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C14-C17, n-alkanes, < 2% aromatics                      | 917-828-1                                  | 90622-46-1         | Alkanes, C14-16  |
|  |   |  | 64771-72-8         | Paraffins (Petroleum), normal C5-20  |
| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C14-C20, n-alkanes, < 2% aromatics                      | 923-583-1                                  | 64771-72-8         | Paraffins (petroleum), normal C5-20  |
| C14-20 Aliphatics (<=2% aromatic)              | Pentadecane   | 211-098-1                                  | 629-62-9           | Pentadecane  |
| C14-20 Aliphatics (<=2% aromatic)              | Hexadecane (n-Hexadecane)   | Pre-registration<br>208-878-9<br>Reg. 2018 | 544-76-3           | Hexadecane   |
| C14-20 Aliphatics (<=2% aromatic)              | Hexadecane (iso-hexadecane)   | 297-628-2                                  | 93685-80-4         | Hydrocarbons, C4, 1,3-butadiene-free, polymd., tetraisobutylene fraction, hydrogenated |
| C14-20 Aliphatics (<=2% aromatic)              | Heptadecane   | Pre-registration<br>211-108-4<br>Reg. 2018 | 629-78-7           | Heptadecane  |
| C14-20 Aliphatics (<=2% aromatic)              | Octadecane  | Pre-registration<br>209-790-3<br>Reg. 2018 | 593-45-3           | octadecane   |
| C14-20 Aliphatics (<=2% aromatic)              | Icosane (isicosane)   | Pre-registration<br>297-627-7<br>Reg. 2013 | 93685-79-1         | Hydrocarbons, C4, 1,3-butadiene-free, polymd., pentaisobutylene fraction, hydrogenated |
| C14-20 Aliphatics (<=2% aromatic)              | Icosane (n-icosane)   | 204-018-1                                  | 112-95-8           | Eicosane   |
| C14-20 Aliphatics (<=2% aromatic)              | Hydrocarbons, C14-C20, n-alkanes, isoalkanes, <2% aromatics           | 931-265-9                                  | 90622-53-0         | Alkanes, C12-26-branched and linear  |
|  |   |  | 90622-46-1         | Alkanes, C14-16  |
|  |   |  | 90622-48-3         | Alkanes, C18-20  |