

Olefins

PRODUCT LINE	PRODUCTS	EINECS	Type	Pre- Reg	Reg	Registration Deadline	Intended Use(s)
Lower Olefins	Ethylene	200-815-3	Substance	x	x	2010	Ethylene
Lower Olefins	Propylene	204-062-1	Substance	x	x	2010	Propylene
Normal Alpha Olefins	1-Butene	203-449-2	Substance	x	x	2010	1-Butene
Normal Alpha Olefins	1-Decene (C10H20)	212-819-2	Substance	x	x	2010	1- Decene'
Normal Alpha Olefins	1-Dodecene (C12H24)	203-968-4	Substance	x	x	2010	1-dodecene'
Normal Alpha Olefins	1-Hexadecene (C16H32)	211-105-8	Substance	x	x	2010	1-Hexadecene'
Normal Alpha Olefins	1-Hexene (C6H12)	209-753-1	Substance	x	x	2010	1-hexene'
Normal Alpha Olefins	1-Octadecene (C18H36)	248-205-6	Substance	x	x	2010	1-octadecene'
Normal Alpha Olefins	1-Octene (C8H14)	203-893-7	Substance	x	x	2010	1-octene'
Normal Alpha Olefins	1-Tetradecene (C14H28)	214-306-9	Substance	x	x	2010	1-Tetradecene'
Normal Alpha Olefins	1-Octacosene (C28H56)	242-616-4	Substance	x	x	2010	1-Octacosene'
Normal Alpha Olefins	1-Hexacosene (C26H52)	242-615-9	Substance	x	x	2010	1-hexacosene'
Normal Alpha Olefins	Alpha Olefin C20-24	300-202-1	Substance	x	x	2010	Alpha Olefin C20-24'
Normal Alpha Olefins	Alpha Olefin C24-28	300-203-7	Substance	x	x	2010	Alpha Olefin C24-28'
Normal Alpha Olefins	Alpha Olefin C26-28	Various	Preparation	x	x	2010	Alpha Olefin C26-28'
Normal Alpha Olefins	Alpha Olefin C30+	Various	Polymer*	x	x	2010	Alpha Olefin C30+'
Normal Alpha Olefins	Alpha Olefin C30+HA	Various	Polymer*	x	x	2010	Alpha Olefin C30+HA
Normal Alpha Olefins	Isomerized Alpha Olefin C16	248-131-4	Substance	x	x	2010	hexadecene - Isomerised'
Normal Alpha Olefins	Isomerized Alpha Olefin C18	248-205-6	Substance	x	x	2010	Octadecene Isomerised
Polyalphaolefins	Synfluid ® PAO 2 cSt	500-228-5	Substance	x	x	2013	Synfluid PAO 2cSt'
Polyalphaolefins	Synfluid ® PAO 2.5 cSt	NOTIFIED	Substance			NOTIFIED	
Polyalphaolefins	Synfluid ® PAO 4 cSt	500-183-1	Substance	x	x	2010	Synfluid PAO 4cSt
Polyalphaolefins	Synfluid ® PAO 5 cSt	NOTIFIED	Preparation			NOTIFIED	
Polyalphaolefins	Synfluid ® PAO 6 cSt	500-183-1	Substance	x	x	2010	Synfluid PAO 6cSt
Polyalphaolefins	Synfluid ® PAO 7 cSt	NOTIFIED	Preparation			NOTIFIED	
Polyalphaolefins	Synfluid ® PAO 8 cSt	500-183-1	Substance	x	x	2010	Synfluid PAO 8cSt
Polyalphaolefins	Synfluid ® PAO 9 cSt	NOTIFIED	Preparation			NOTIFIED	
Polyalphaolefins	Synfluid ® PAO 10 cSt	500-183-1	Substance	x	x	2010	Synfluid PAO 10cSt
Polyalphaolefins	Synfluid ® Mid Viscosity PAO	500-183-1	Substance	x	x	2010	Synfluid Mid Viscosity
Polyalphaolefins	Synfluid ® PAO 40 cSt	Various	Polymer	x	x	2010	Synfluid PAO 40cSt
Polyalphaolefins	Synfluid ® PAO 100 cSt	Various	Polymer	x	x	2010	Synfluid PAO 100cSt

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name 1- Decene
 EC number 212-819-2
 CAS number 872-05-09



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU 22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU 22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU 22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

2	Formulation & (re)packaging of Substance and Mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU 22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8a, ERC8d
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8a, ERC8d

5	Use in Oil field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
23	Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU 22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **1- Octene**
 EC number 203-893-7
 CAS number 111-66-0



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU 21)	Not Applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU 21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC 15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU 21)	Not Applicable		

2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU 21)	Not Applicable		
5	Use in Oil field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU 21)	Not Applicable		
12	Use as a Fuel	Industrial (SU3)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	ERC7
		Professional (SU22)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	ERC9a, ERC9b
		Consumer (SU 21)	Not Applicable		
22	Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU 21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name 1- hexene
 EC number 209-753-1
 CAS number 592-41-6



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

2	Formulation & (re)packaging of Substance and Mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
6	Use as a Lubricant	Industrial (SU3)	Covers the use of the formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and simillare articles, reworking on reject articles, equipment maintenance and disposal of wastes	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC4, ERC7
		Professional (SU22)	Covers the use of the formulated lubricants in closed and open systems including transfer operations, operation of engines and simillare articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of the formulated lubricants in closed and open systems including transfer operations, application, operation of engines and simillare articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal working fluids/rolling oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4

		Professional (SU22)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
12	Use as a Fuel	Industrial (SU3)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	ERC7
		Professional (SU22)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
22	Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6C
		Professional (SU22)	Not Applicable		

	Consumer (SU21)	Not Applicable		
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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name 1- Dodecene
EC number 203-968-4
CAS number 112-41-4



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
2	Formulation & (re)packaging of Substance and Mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2

		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9A, PC9B, PC9C, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D
4	Uses in Cleaning Agents	Industrial (SU3)	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during the mix/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance	PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13	ERC4

		Professional (SU22)	Covers the use as a component of cleaning products including pouring/unloading from drums or containers, and exposure during mixture/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).	PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13	ERC8A, ERC8D
		Consumer (SU21)	Covers general exposure to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products	PC3, PC4, PC8, PC9A, PC9B, PC9C, PC24, PC35, PC38	ERC8A, ERC8D
5	Use in Oil Field Drilling and Production Operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not Applicable		
6	Use as a Lubricant	Industrial (SU3)	Covers the use of the formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC4, ERC7
		Professional (SU22)	Covers the use of the formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B

		Consumer (SU21)	Covers the consumer use of the formulated lubricants in closed and open systems including transfer operations, application, operation of engines and simillare articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
23	Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processesm include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6C
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **1-Tetradecene**
 EC number 214-306-9
 CAS number 1120-36-1



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9A, PC9B, PC9C, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D

4	Uses in Cleaning Agents	Industrial (SU3)	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during the mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance	PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13	ERC4
		Professional (SU22)	Covers the use as a component of cleaning products including pouring/unloading from drums or containers, and exposure during mixture/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).	PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13	ERC8A, ERC8D
		Consumer (SU21)	Covers general exposure to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products	PC3, PC4, PC8, PC9A, PC9B, PC9C, PC24, PC35, PC38	ERC8A, ERC8D
5	Use in Oil field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not applicable		

6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not applicable		

13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
25	Use in Mining	Industrial (SU3)	Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
22	Use in Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
5	Use in Oil field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name 1- Octadecene
 EC number 204-012-9
 CAS number 112-88-9



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC 15	ERC6A

2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9A, PC9B, PC9C, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D
5	Use in Oil and Gas Field Drilling and Production Operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4

		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not applicable		
22	Use in Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
25	Use in Mining	Industrial (SU3)	Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name 1- Hexacosene
 EC number 242-615-9
 CAS number 18335-33-1



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU8, SU9, SU3)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU 10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
5	Use in Oil field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not applicable		
6	Lubricants	Industrial (SU3)	The use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC4, ERC7
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B

		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
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2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
5	Use in Oil field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not applicable		
6	Lubricants	Industrial (SU8, SU10)	The use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC20	ERC4, ERC7
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B

		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
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2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
5	Use in Oil and Gas Field Drilling and Production Operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC 4
		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not Applicable		
6	Lubricants	Industrial (SU3)	The use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC4, ERC7
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B

		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Metal working fluids/rolling oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
12	Use as a Fuel	Industrial (SU3)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	ERC7
		Professional (SU22)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	ERC9A, ERC9B
		Consumer (SU21)	Covers consumer uses in liquid fuels	PC13	ERC9a, ERC9b
13	Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC 8a, PROC 8b, PROC9	ERC7

		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC 8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. Transfer oils, hydraulic fluids, refrigerants	PC16, PC17	ERC 9a, ERC9b
22	Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC 8a, PROC 8b, PROC14, PROC15	ERC4, ERC6C
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternate legislation.	PC 31	ERC 8a, ERC 8d

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2	Formulation & (re)packaging of substance and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	PC 31	ERC 8a, ERC 8d

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Isomerized Alpha Olefin C18
EC number 248-205-6
CAS number 27070-58-2



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of Substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its distribution and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6a
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
2	Formulation and (Re)Packaging of Substances and Mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of the substance and its mixtures in a batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader by hand or similar methods, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8a, ERC8d
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8a, ERC8d
5	Use in Oil and Gas Field Drilling and Production Operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8d
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name
EC number
CAS number

Alpha Olefin C26-28
Preparation



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4, ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of Substance	Industrial (SU9)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

2	Formulation & (re)packaging of substance and mixtures	Industrial (SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
5	Use in Oil field drilling and production operations	Industrial (SU8)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	PROC3, PROC4, PROC8a, PROC8b	ERC8D
		Consumer (SU21)	Not applicable		
6	Lubricants	Industrial (SU8, SU10)	The use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC20	ERC4, ERC7
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC13, PROC17, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name
EC number
CAS number

Alpha Olefin C30+
Polymer



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4, ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
6	Lubricants	Industrial (SU10)	Not applicable		
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Polishes and Wax Blends	PC31	ERC11A

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Synfluid ® PAO 2 cSt
EC number 500-228-1
CAS number 68649-11-6



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of Substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of a Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D
6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4

		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7

		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processesm include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
11	Use in Agrochemicals	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13	ERC 8a, ERC 8d
		Consumer (SU21)	Covers the consumer use in agrochemicals in liquid and solid forms.	PC12, PC27	ERC 8d
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternatice legislation.	PC 31	ERC 8a, ERC 8d

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2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D
6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4

		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7

		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
11	Use in Agrochemicals	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13	ERC 8a, ERC 8d
		Consumer (SU21)	Covers the consumer use in agrochemicals in liquid and solid forms.	PC12, PC27	ERC 8d
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	PC 31	ERC 8a, ERC 8d

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Synfluid® PAO 6 cSt
EC number 500-183-1
CAS number 68307-01-4



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of Substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of a Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D

6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		

13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3,	Manufacture of polymers from monomers	PROC1, PROC2,	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
11	Use in Agrochemicals	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13	ERC 8a, ERC 8d
		Consumer (SU21)	Covers the consumer use in agrochemicals in liquid and solid forms.	PC12, PC27	ERC 8d
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	PC 31	ERC 8a, ERC 8d

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Synfluid ® PAO 8 cSt
EC number 500-183-1
CAS number 68307-01-4



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of Substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of a Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D

6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		

13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3,	Manufacture of polymers from monomers	PROC1, PROC2,	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
11	Use in Agrochemicals	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13	ERC 8a, ERC 8d
		Consumer (SU21)	Covers the consumer use in agrochemicals in liquid and solid forms.	PC12, PC27	ERC 8d
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	PC 31	ERC 8a, ERC 8d

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2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D

6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		

13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3,	Manufacture of polymers from monomers	PROC1, PROC2,	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
11	Use in Agrochemicals	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13	ERC 8a, ERC 8d
		Consumer (SU21)	Covers the consumer use in agrochemicals in liquid and solid forms.	PC12, PC27	ERC 8d
16	Other Consumer Uses	Industrial (SU3, SU8, SU9, SU10)	Not Applicable		
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. Use as a carrier in cosmetics/personal care products, perfumes and fragrances Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	PC 31	ERC 8a, ERC 8d

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Synfluid Mid Viscosity PAO
EC number 500-183-1
CAS number 68307-01-4



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of Substance	Industrial (SU3, SU8, SU9)	Manufacture of a substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution of a Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D
6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4

		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18,	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7

		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processesm include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name
EC number
CAS number

Synfluid® PAO 40 cSt
Polymer



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC7, ERC4
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC13, PROC17, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC6, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4

		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		

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		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Ethylene
 EC number 200-815-3
 CAS number 74-85-1



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU8, SU9)	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
22	Polymer Production	Industrial (SU8, SU0)	Manufacture of polymers from monomers in continuous and batch processes, include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. Compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC14, PROC21	ERC6c, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
12	Use as a fuel	Industrial (SU0)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC16	ERC7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Proylene
EC number 204-062-1
CAS number 115-07-1



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of Substance	Industrial (SU3, SU8, SU9)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

2	Formulation	Industrial (SU3, SU8, SU9, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
12	Use as a Fuel	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC16	
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC16	
		Consumer (SU21)	Covers consumer uses in liquid fuels	PC13	
22	Use in Polymer Production	Industrial (SU3, SU8, SU9)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC21	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
	Use as a propellant	Industrial (SU3)	Use as a propellant in professional aerosol products, including product disposal	PROC7	
		Professional (SU22)	Use as a propellant in professional aerosol products, including product disposal	PROC3, PROC5, PROC9, PROC11, PROC14	

		Consumer (SU21)	Use as a propellant in household consumer aerosol products	PC1, PC3, PC4, PC8, PC9a, PC24, PC27, PC28, PC31, PC35, PC39	
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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name But-1-ene
EC number 203-449-2
CAS number 106-98-9



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU8, SU9)	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1B	Use as an intermediate	Industrial (SU8, SU9)	Use as an isolated intermediate under strictly controlled conditions	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Hexadec-1-ene
EC number 211-105-8
CAS number 629-73-2



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of Substance	Industrial (SU3)	Loading (including marine vessel/barge, rail/road car and IBC loading), and repacking (including drums and small packs of substance, including its distribution and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as an Intermediate	Industrial (SU3, SU8, SU9)	Use as a isolated intermediate not under strictly controlled conditions.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

2	Formulation	Industrial (SU3, SU10)	Formulation, packing and re-packing of substance and mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8A, ERC8D
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray, by hand or similar methods) and equipment cleaning	PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34	ERC8A, ERC8D

6	Lubricants	Industrial (SU3)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18	ERC7, ERC4
		Professional (SU22)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	PC1, PC24, PC31	ERC8A, ERC8D, ERC9A, ERC9B
5	Use in Oil and Gas Field Drilling and Production Operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including materials transfers, on-site formulation, well head operations, shaker room activities and related maintenance	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Oil field well drilling and production operations (including drilling muds and well cleaning) including materials transfers, on-site formulation, well head operations, shaker room activities and related maintenance	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8D

7	Use in Metal Working Fluids/Rolling Oils	Industrial (SU3)	Covers the use in formulated metal working fluids/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated metal working fluids including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/reject articles, and disposal of waste oils.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17	ERC8A, ERC8D, ERC9A, ERC9B
		Consumer (SU21)	Not applicable		
13	Use in Functional Fluids	Industrial (SU3)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9	ERC7
		Professional (SU22)	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20	ERC9A, ERC9B
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants, etc.	PC16, PC17	ERC9A, ERC9B
22	Use in Polymer Production	Industrial (SU3, SU10)	Manufacture of polymers from monomers in continuous and batch processes include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing).	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC14, PROC15	ERC4, ERC6c
		Professional (SU22)	Not applicable		

		Consumer (SU21)	Not applicable		
25	Use in Mining	Industrial (SU3)	Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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