

Specialty Chemicals

NOTE: Please be aware that those substances registered or to be register as Intermediates should be handled under Strictly Controlled Conditions. Exposure Scenario are not required for this type of Registration.

Date of revision - May 2012

PRODUCT LINE	PRODUCTS	EINECS	CAS	Pre- Reg	Reg	Registration Deadline	Type of Registration	Intended Use(s)
Catalysts	E-Series Acetylene Hydrogenation Catalyst	Various	Various	x	x	2013	Substance	no data
Hydrocarbons	1,2-dimethylcyclohexane	209-509-4	583-57-3	x	x	2018	Substance	1,2 dimethylcyclohexane
Hydrocarbons	2,2-dimethylbutane	200-906-8	75-83-2	x	x	2018	Substance	2,2 dimethylbutane
Hydrocarbons	Alkanes, C14-16	292-448-0	90622-46-1	x	x	2018	Substance	Alkanes, C14-16
Hydrocarbons	Cyclohexane	203-806-2	110-82-7	x	x	2018	Substance	Cyclohexane
Hydrocarbons	Cyclopentane, pure grade	206-016-6	287-92-3	x	x	2018	Substance	Cyclopentane, pure grade
Hydrocarbons	Ethylcyclohexane	216-835-0	1678-91-7	x	x	2018	Substance	Ethylcyclohexane
Hydrocarbons	Isooctane (2,2,4-trimethylpentane), pure grade	208-759-1	540-84-1	x	x	2010	Substance	Isooctane
Hydrocarbons	Isooctene	203-486-4	107-39-1	x	x	2018	Substance	Iso-octene
Hydrocarbons	DEHA (N,N-diethylhydroxylamine), > 85%	223-055-4	3710-84-7	x	x	2013	Substance	under revision
Hydrocarbons	n-dodecane	203-967-9	112-40-3	x	x	2018	Substance	Dodecane
Hydrocarbons	n-heptane, pure grade	205-563-8	142-82-5	x	x	2010	Substance	n-Heptane
Hydrocarbons	n-hexadecane	208-878-9	544-76-3	x	x	2018	Substance	n-hexadecane
Hydrocarbons	n-hexane, pure grade	203-777-6	110-54-3	x	x	2010	Substance	n-hexane, pure grade
Hydrocarbons	n-octadecane	209-790-3	593-45-3	x	x	2018	Substance	n-octadecane
Hydrocarbons	n-octane	203-892-1	111-65-9	x	x	2018	Substance	n-octane
Hydrocarbons	Soltrol® 100 Isoparaffin solvent	271-365-3	68551-16-6	x	x	2013	Substance	Soltrol 100
Hydrocarbons	Soltrol® 130 Isoparaffin solvent	271-366-9	68551-17-7	x	x	2010	Substance	Soltrol 130
Hydrocarbons	Soltrol® 170 Isoparaffin solvent	271-369-5	68551-19-9	x	x	2018	Substance	Soltrol 170
Hydrocarbons	Soltrol® 220 Isoparaffin solvent	271-370-0	68551-20-2	x	x	2013	Substance	Soltrol 220

PRODUCT LINE	PRODUCTS	EINECS	CAS	Pre- Reg	Reg	Registration Deadline	Type of Registration	Intended Use(s)
Hydrocarbons	Soltrol® 10 Isoparaffin solvent	274-273-1	70024-92-9	x	x	2018	Substance	Soltrol 10
Hydrocarbons	Xylene	215-535-7	1330-20-7	x	x	2018	Substance	Xylene
Hydrocarbons	methylcyclohexane, pure grade	203-624-3	108-87-2	x	x	2010	Substance	Methylcyclohexane
Mining	ORFOM® SX 11	271-370-0	68551-20-2	x	x	2013	Substance	ORFOM SX11
Organosulfurs	2-hydroxyethyl n-octyl sulfide (R-874)	222-598-4	3547-33-9	x	x	2013	Substance	R-874
Organosulfurs	2-mercaptoethanol (BME)	200-464-6	60-24-2	x	x	2010	Substance	BME
Organosulfurs	cyclohexyl mercaptan (CHM)	216-378-7	1569-69-3	x	x	2013	Intermediate	No Exposure Scenario Needed
Organosulfurs	di(2-hydroxyethyl) disulfide (DHEDS)	217-576-6	1892-29-1	x	x	2018	Substance	DHEDS
Organosulfurs	diethyl sulfide (DES)	206-526-9	352-93-2	x	x	2013	Substance	DES
Organosulfurs	dimethyl disulfide (DMDS)	210-871-0	624-92-0	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	dimethyl sulfide (DMS)	200-846-2	75-18-3	x	x	2013	Substance	DMS
Organosulfurs	di-n-propyl disulfide	211-079-8	629-19-6	x	x	2018	Substance	di-n-propyl disulfide
Organosulfurs	dipentene dimercaptan	225-363-4	4802-20-4	x	x	2018	Substance	dipentene dimercaptan
Organosulfurs	di-tert-dodecyl disulfide	248-468-7	27458-90-8	x	x	2018	Substance	di-ter-dodecyl disulfide'
Organosulfurs	ethyl mercaptan (EM)	200-837-3	75-08-1	x	x	2010	Substance	EM
Organosulfurs	ethylthioethanol (ETE)	203-802-0	110-77-0	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	isopropyl mercaptan	200-861-4	75-33-2	x	x	2018	Substance	isopropylmercaptan
Organosulfurs	Mercasol L	253-523-3	37482-11-4	x	x	2018	Substance	Mercasol L
Organosulfurs	methyl 3-mercaptopropionate (MMP)	220-912-4	2935-90-2	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	methyl ethyl sulfide (MES)	210-868-4	624-89-5	x	x	2018	Substance	MES
Organosulfurs	n-butyl mercaptan	203-705-3	109-79-5	x	x	2018	Substance	n-butyl mercap'
Organosulfurs	n-dodecyl mercaptan (NDM)	203-984-1	112-55-0	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	n-octyl mercaptan (NOM)	203-918-1	111-88-6	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	n-propyl mercaptan	203-455-5	107-03-9	x	x	2018	Intermediate	No Exposure Scenario Needed
Organosulfurs	Scentinel A ® Gas Odorant	200-837-3	75-08-1	x	x	2010	Substance	Scentinel
Organosulfurs	Scentinel E ® Gas Odorant	Various	Various	x	x	2010	Preparation	Scentinel

PRODUCT LINE	PRODUCTS	EINECS	CAS	Pre- Reg	Reg	Registration Deadline	Type of Registration	Intended Use(s)
Organosulfurs	Scentinel F-20 ® Gas Odorant	Various	Various	x	x	2013	Preparation	Scentinel
Organosulfurs	Scentinel F-35 ® Gas Odorant	Various	Various	x	x	2013	Preparation	Scentinel
Organosulfurs	Scentinel N ® Gas Odorant	Various	Various	x	x	2010	Preparation	Scentinel
Organosulfurs	Scentinel P ® Gas Odorant	Various	Various	x	x	2010	Preparation	Scentinel
Organosulfurs	Scentinel S-50 ® Gas Odorant	Various	Various	x	x	2010	Preparation	Scentinel
Organosulfurs	Scentinel T ® Gas Odorant	203-728-9	110-01-0	x	x	2010	Preparation	Scentinel T
Organosulfurs	Scentinel TB ® Gas Odorant	Various	Various	x	x	2010	Preparation	Scentinel
Organosulfurs	Scentinel TB5 ® Gas Odorant	Various	Various	x	x	2010	Preparation	Scentinel
Organosulfurs	sec-butyl mercaptan	208-165-2	513-53-1	x	x	2018	Substance	sec-butylmercaptan'
Organosulfurs	sodium methanethiolate	225-969-9	5188-07-8	x	x	2018	Preparation	sodium methanethiolate'
Organosulfurs	Sulfole 100® mercaptan (TDM / TNM blend)	Various	Various	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	Sulfole 120® mercaptan (tert-dodecyl mercaptan)	246-619-1	25103-58-6	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	Sulfole 120B® mercaptan (tert-dodecyl mercaptan)	246-619-1	25103-58-6	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	Sulfole 90® mercaptan (tert-nonyl mercaptan)	246-896-9	25360-10-5	x	x	2013	Substance	Sulfole 90'
Organosulfurs	TBPS 454	273-103-3	68937-96-2	x	x	2012	Intermediate	No Exposure Scenario Needed
Organosulfurs	TDPS 320	271-518-4	68583-56-2	x	x	2013	Substance	TDPS320
Organosulfurs	TDPS 532	270-335-7	68425-15-0	x	x	2013	Substance	TDPS532
Organosulfurs	tert-dodecyl mercaptan (TDM)	246-619-1	25103-58-6	x	x	2010	Intermediate	No Exposure Scenario Needed
Organosulfurs	tert-butyl mercaptan (TBM)	200-890-2	75-66-1	x	x	2010	Substance	TBM
Organosulfurs	tert-nonyl mercaptan (TNM)	246-896-9	25360-10-5	x	x	2013	Substance	TNM
Organosulfurs	tetrahydrothiophene (thiophane)	203-728-9	110-01-0	x	x	2010	Substance	Tetrahydrothiophene

PRODUCT LINE	PRODUCTS	EINECS	CAS	Pre- Reg	Reg	Registration Deadline	Type of Registration	Intended Use(s)
Polysulfides	di-tert-butyl polysulfide (TBPS 454)	273-103-3	68937-96-2	x	x	2012	Intermediate	No Exposure Scenario Needed
Polysulfides	di-tert-dodecyl polysulfide (TDPS 320)	271-518-4	68583-56-2	x	x	2013	Substance	di-ter-dodecylpolysul320
Polysulfides	di-tert-dodecyl polysulfide (TDPS 532)	270-335-7	68425-15-0	x	x	2013	Substance	di-terdodecylpolysul532
Polysulfides	di-tert-nonyl polysulfide (TNPS 537)	270-336-2	68425-16-1	x	x	2013	Substance	TNPS 537
Sulfolanes	Sulfolane	204-783-1	126-33-0	x	x	2010	Substance	Sulfolane
Sulfolanes	Sulfolane A	204-783-1	126-33-0	x	x	2010	Substance	Sulfolane
Sulfolanes	Sulfolane W	204-783-1	126-33-0	x	x	2010	Substance	Sulfolane
Sulfolanes	Sulfolene	201-059-7	77-79-2	x	x	2018	Intermediate	No Exposure Scenario Needed

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **1,2 dimethylcyclohexane**
 EC number 209-509-4
 CAS number 583-57-3



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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Alkanes, C14-16
 EC number 292-448-0
 CAS number 90622-46-1



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
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	ERC 7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Cyclopentane, pure grade
EC number 206-016-6
CAS number 287-92-3



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
9	Blowing agents	Industrial (SU8, SU9)	Use as a blowing agent for rigid and flexible foams, including transfers, mixing and injection, curing, cutting, storage and packing	PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8b, PROC10, PROC14	ERC3
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Ethylcyclohexane**
 EC number 216-835-0
 CAS number 1678-91-7



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, ERC6A
		Professional (SU22)			
		Consumer (SU21)			

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Isooctane**
 EC number 208-759-1
 CAS number 540-84-1



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 a process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bult container), sampling	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of substance	Industrial (SU8, SU9)	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading 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		
2	Formulation & (re)packing of substances and mixtures	Industrial (SU10)	Formulation, packing and re-packing of the substance and its 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 exposure 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 firm formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, PROC9, PROC14	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposure during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, 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, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34, PC8	ERC8a, ERC8d
4	Use in Cleaning Agents	Industrial (SU3)	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposure during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.	PROC1, 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 exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13	ERC8a, ERC8d
		Consumer (SU21)	Covers general exposures 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, PC9a, PC9b, PC9c, PC24, PC35, PC38, PC8	ERC8a, ERC8d
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
17	Use in laboratories	Industrial (SU3)	Use of the substance within laboratory settings, including material transfers and equipment cleaning.	PROC10, PROC15	ERC2, ERC4
		Professional (SU22)	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.	PROC10, PROC15	ERC8a
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **n-Dodecane**
 EC number 203-967-9
 CAS number 112-40-3



GES#	General Exposure Scenario Title (G)	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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **n-Heptane, pure grade**
 EC number 205-563-8
 CAS number 142-82-5



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
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, 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 **n-Hexadecane**
 EC number 208-878-9
 CAS number 544-76-3



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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **n-octadecane**
 EC number 209-790-3
 CAS number 593-45-3



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 Use (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, recycling and disposal of wastes.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC 7, ERC 4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **n-octane**
 EC number 203-892-1
 CAS number 11-65-9



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
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	ERC 7
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Soltrol® 100 Isoparaffin solvent**
 EC number 271-365-3
 CAS number 68551-16-6



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 (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	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15	ERC1, ERC4
		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, 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, brush, spreader by hand or similar methods, 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, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34, PC8 (excipient only)	ERC 8A, ERC 8D
5	Use in Oilfield drilling and Production Operations	Industrial Use (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
16	Other Consumer Uses	Industrial (SU3)	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.	PC28, PC39	ERC 8A, ERC 8D
17	Use in Laboratories	Industrial (SU3)	Not applicable		
		Professional (SU22)	Use of small quantities within laboratory settings, including material transfers and equipment cleaning	PROC10, PROC15	ERC 8A
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Soltrol® 130 Isoparaffin solvent**
 EC number 271-366-9
 CAS number 68551-17-7



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 a 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, SU8, SU9)	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
		Professional (SU22)			
		Consumer (SU21)			
2	Formulation & (re)packing of substances and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2
		Professional (SU22)			
		Consumer (SU21)			

3	Uses in Coatings	Industrial (SU3)	Covers the use in coatings (paints, inks, adhesives, etc) including exposure 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 firm formation) and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, ROC15	ERC4
		Professional (SU22)	Covers the use in coatings (paints, inks, adhesives, etc) including exposure during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, 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 teh 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, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34, PC0	ERC8a, ERC8d
4	Use in Cleaning agents	Industrial (SU8, SU9)	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during the mixin/diluting in the preparatory phase and cleaning activites (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance	PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC1	ERC4

		Professional (SU22)	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/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, PROC1	ERC8a, ERC8d
		Consumer (SU21)	Covers general exposures 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, PC9a, PC9b, PC9c, PC24, PC35, PC38, PC0	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, ERC7
		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, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18, PROC11, 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	Metal working fluids	Industrial (SU3)	Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, 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, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Covers the use in formulated MWFs/rolling oils including transfer operations, open and contained 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, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC5, PROC8a	ERC8a, ERC8d
		Consumer (SU21)	Not applicable		
10	Uses as binders and release agents	Industrial (SU3)	Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), mould forming and casting, and handling of waste.	PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8b, PROC10, PROC13, PROC14	ERC4
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing and handling of waste.	PROC1, PROC2, PROC3, PROC4, PROC6, PROC8a, PROC8b, PROC10, PROC11, PROC14	ERC8a, ERC8d
		Consumer (SU21)	Not applicable		
17	Use in laboratories	Industrial (SU3)	Use of the substance within laboratory settings, including material transfers and equipment cleaning.	PROC15, PROC10	ERC2, ERC4
		Professional (SU22)	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.	PROC10, PROC15	ERC8a
		Consumer (SU21)	Not applicable		

12	Use as a fuel	Industrial (SU8, SU9)	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, PROC8a, PROC8b, PROC9	ERC7
		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, PROC8a, PROC9, PROC20	ERC9a, ERC9b
		Consumer (SU21)	Use of sealed items containing functional fluids e.g. Transfer oils, hydraulic fluids, refrigerants.	PC16, PC17,	ERC9a, ERC9b
21	Water treatment chemicals	Industrial (SU3)	Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13	ERC3, ERC4
		Professional (SU22)	Covers the use of the substance for the treatment of water in open and closed systems	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13	ERC8f
		Consumer (SU21)	Not applicable		
15	Road and construction applications	Industrial (SU3)	Not applicable		

	Professional (SU22)	Application of surface coatings and binders in road and construction activities, including paving uses, manual mastic and in the application of roofing and water-proofing membranes.	PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13	ERC8d, ERC8f
	Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Soltrol® 170 Isoparaffin solvent**
 EC number 271-369-5
 CAS number 68551-19-9



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 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		
2	Formulation & (re)packing of substances and mixtures	Industrial (SU10)	Formulation, packing and re-packing of the substance and its 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		
4	Use in Cleaning Agents	Industrial (SU8, SU9)	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	ERC2, ERC3, ERC4, ERC7, ERC8a, ERC8b, ERC10, ERC13	ERC4

		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
7	Metal working fluids / rolling oils	Industrial (SU3)	Covers the use in formulated MWFs/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)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Soltrol® 220 Isoparaffin solvent**
 EC number 271-370-0
 CAS number 68551-20-2



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Manufacture	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
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
2	Formulation & (re)packing of substances and mixtures	Industrial (SU10)	Formulation, packing and re-packing of the substance and its 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		
4	Use in Cleaning Agents	Industrial (SU8, SU9)	Not applicable		
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Covers general exposures 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 (excipient only) PC9a, 9b, 9c, PC24, PC35, PC38	ERC 8A, ERC 8D;
5	Use in Oilfield drilling and Production Operations	Industrial Use (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC4

		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
7	Metal working fluids / rolling oils	Industrial (SU3)	Covers the use in formulated MWFs/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, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Soltrol® 10 Isoparaffin solvent**
 EC number 274-273-1
 CAS number 70024-92-9



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 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		
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, PROC10, PROC13, PROC15	ERC4
		Professional (SU22)	Not applicable		
		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)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Xylene**
 EC number 215-535-7
 CAS number 1330-20-7



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
12	Use as a fuel	Industrial (SU8, SU9)	Not applicable		
		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, PROC4, PROC8a, PROC8b, PROC16, PROC19	ERC 8A, ERC 8D
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **ORFOM® SX 11**
 EC number 271-370-0
 CAS number 68551-20-2



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
22	Mining	Industrial (SU10)	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, PROC8b, PROC9	ERC 8D
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **2,2-dimethylbutane**
 EC number 200-906-8
 CAS number 75-83-2



GES#	General Exposure Scenario Title (GES)	Area of Application / Use Descriptor	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
12	Use as a fuel	Industrial Use (SU3)	Not applicable		
		Professional (SU22)	Covers the use as a fuel additive and includes activities associated with its transfer, use, equipment maintenance and handling of waste	PROC16	ERC9B
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **n-hexane, pure grade**
 EC number 203-777-6
 CAS number 110-54-3



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 (SU0, SU3, SU8, SU9)	Manufacture of the substance or use as a 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, ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution of substance	Industrial (SU0, 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 sampling, storage, unloading and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1, ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
2	Formulation and (re)packaging	Industrial (SU10)	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, material transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, 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	Use in coatings	Industrial (SU0, 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.	PRPC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, 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, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	ERC8a, ERC8c, ERC8d, ERC8f
		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	Use in cleaning agents	Industrial (SU0, SU3)	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposure during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.	PROC1, 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 exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13	ERC8a, ERC8b
		Consumer (SU21)	Not applicable		
9	Blowing agents	Industrial (SU0, SU3)	Use as a blowing agent for rigid and flexible foams, including material transfers, mixing and injection, curing, cutting, storage and packing.	PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
13	Functional fluids	Industrial (SU0, 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, 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, PROC8a, PROC9, PROC20	ERC9a, ERC9b
		Consumer (SU21)	Not applicable		
17	Use in laboratories	Industrial (SU0, SU3)	Use of the substance within laboratory settings, including material transfers and equipment cleaning.	PROC10, PROC15	ERC2, ERC4
		Professional (SU22)	Use of the substance within laboratory settings, including material transfers and equipment cleaning.	PROC10, PROC15	ERC8a
		Consumer (SU21)	Not applicable		

	Polymer processing	Industrial(SU10)	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, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC21	ERC4, ERC3, ERC5, ERC6d
		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, PROC6, PROC8a, PROC8b, PROC14, PROC21	ERC8a, ERC8b, ERC8c, ERC8d, ERC8f
		Consumer (SU21)	Not applicable		
22	Mining chemicals	Industrial (SU0, 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, ERC8d
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
16	Other Consumer Uses	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 teh environment under REACH as human health is covered by alternative legislation	PC28, PC39	ERC8a, ERC8d

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name 2-mercaptoethanol (BME)
 EC number 200-464-6
 CAS number



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, PROC8a, PROC8b, PRO9, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
2	Distribution 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, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC8a, PROC8b, PRO9, PROC15	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
3	Use as an intermediate 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, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15	ERC6a

		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
4	Use in Polymer Production of substance	Industrial (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, PROC8a, PROC8b, PROC9, PROC14	ERC4, ERC6c
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
5	Use in Drilling Muds of substance	Industrial (SU0)	Oilfield well drilling and production operations (including drilling muds and well cleaning) including material transfer, onsite formulations, well head operations, shaker room activities, and related maintenance.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
6	Use in water treatment chemicals of substance	Industrial (SU3)	Use in water treatment chemicals	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13	ERC3, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **di(2-hydroxyethyl) disulfide (DHEDS)**
 EC number 217-576-6
 CAS number 1892-29-1



	Exposure Scenario intended by Chevron Phillips	Area of Application / UD	SU description	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
	Intermediate for Lubricant Additive	SU11	Manufacture of rubber products	PROC1	ERC 6d
	Used as sulfiding agent for catalysts	SU8	Manufacture of bulk, large scale chemicals (including petroleum products).	PROC2	ERC 6b
	Intermediate in production of lubricant	SU8	Manufacture of bulk, large scale chemicals (including petroleum products).	PROC3	ERC1

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **diethyl sulfide (DES)**
 EC number 206-526-9
 CAS number 352-93-2



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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	Inudstrial (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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
12	Use in Fuels	Inudstrial (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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **dimethyl sulfide (DMS)**
 EC number 200-846-2
 CAS number 75-18-3



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	Inudtrial (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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	Inudtrial (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	Inudtrial (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	Inudstrial (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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
12	Use in Fuels	Inudstrial (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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **di-n-propyl disulfide**
 EC number 211-079-8
 CAS number 629-19-6



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1B	Use as an Intermediate	Industrial (SU8, SU3, SU9)	Manufacture of cyclohexane 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	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1	Manufactured of a substance (Food Flavourant)	Industrial (SU8, SU3, SU9)	Manufacture of cyclohexane 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	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

Note: Exposure scenarios for this substance still need to be generated and it may be subject to amendments.

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **dipentene dimercaptan**
 EC number 225-363-4
 CAS number 4802-20-4



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1B	Use as an Intermediate	Industrial (SU8, SU3, SU9)	Manufacture of cyclohexane 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	
		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, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

Note: Exposure scenarios for this substance still need to be generated and it may be subject to amendments.

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **di-tert-dodecyl disulfide**
EC number 248-468-7
CAS number 27458-90-8



	Exposure Scenario intended by Chevron Phillips	Area of Application / UD	SU description	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
	Lubricant Additive	SU8	Manufacture of bulk, large scale chemicals (including petroleum products)	PROC2	ERC1

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Ethyl mercaptan (EM)**
 EC number 200-837-3
 CAS number 75-08-1



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1a	Distribution	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	Inudtrial (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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
12	Use in Fuels	Inudtrial (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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Isopropyl mercaptan**
 EC number 200-861-4
 CAS number 75-33-2



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1a	Distribution	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		
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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

12	Use in Fuels	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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS



Product name **Mercasol L**
 EC number 253-523-3
 CAS number 37482-11-4

	Exposure Scenario intended by Chevron Phillips	Area of Application / UD	SU description	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
	Solvent used in the Leather industry	Industrial (SU5)	Manufacture of textiles, leather, fur	PROC13	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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12	Use in Fuels	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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name n-butyl mercaptan
EC number 203-705-3
CAS number 109-79-5



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name n- dodecylmethylsulfide (DDMS)
 EC number 223-028-7
 CAS number 3698-89-3



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)	Manufacture of the substance or use as an intermediate or process or extraction agent. Includes material transfer, storage, loading.	PROC2	ERC1, ERC6b
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name

**Scentinel A ® Gas Odorant; Scentinel E, Scentinel F-20,
Scentinel F-35, Scentinel N; Scentinel P, Scentinel S-50,
Scentinel TB, Scentinel TB5**

EC number

Preparations

CAS number

Preparations



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
12	Use in Fuels	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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name sec-butyl mercaptan
EC number 208-165-2
CAS number 513-53-1



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Sodium methanethiolate
EC number 225-969-9
CAS number 5188-07-8



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
11	Agrochemical uses	Industrial (SU8)	Not applicable		
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Covers the consumer use in agrochemicals in liquid and solid forms.	PC22	ERC8D

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Sulfole 90® mercaptan (tert-nonyl mercaptan)
EC number 246-896-9
CAS number 25360-10-5



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.	PROC1, PROC5	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.	PROC2	ERC8A, ERC8D
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name TDPS 320
EC number 271-518-4
CAS number 68583-56-2



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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		
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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

6	Use in Lubricants	Industrial (SU3)	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, 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)	Not applicable		
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		

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6	Use in Lubricants	Industrial (SU3)	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, 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)	Not applicable		
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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **tert-butyl mercaptan (TBM)**
 EC number 200-890-2
 CAS number 75-66-1



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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	Inudstrial (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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
12	Use in Fuels	Inudstrial (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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name

Tetrahydrothiophene

EC number

203-728-9

CAS number

110-01-0



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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		
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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

12	Use in Fuels	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, PROC8a, PROC8b, PROC15, PROC16	ERC7
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name di-tert-dodecyl polysulfide (TDPS 320)
EC number 271-518-4
CAS number 68583-56-2



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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		
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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

6	Use in Lubricants	Inudtrial (SU3)	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, 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)	Not applicable	PC1, PC24, PC31	ERC8a, ERC8d, ERC9a, ERC9b
7	Metal working fluids/rolling oils	Inudtrial (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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name di-tert-dodecyl polysulfide (TDPS 532)
EC number 270-335-7
CAS number 68425-15-0



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
1A	Distribution	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		
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, PROC15	ERC2
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		

6	Use in Lubricants	Industrial (SU3)	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, 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)	Not applicable	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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name Sulfolane
EC number 204-783-1
CAS number 126-33-0



GES#	General Exposure Scenario Title (GES)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
1	Distribution of Sulfolane	Industrial (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, PROC8a, PROC8b, PROC9, PROC15	ERC1
		Professional (SU22)	Not Applicable		
		Consumer (SU21)	Not Applicable		
2	Use of Sulfolane as an Aromatics Extraction Solvent	Industrial (SU8, SU9)	Manufacture of Substance A 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, PROC8a, PROC8b, PROC15	ERC 1, ERC4, ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
3	Use of Sulfolane in Acid Gas Purification	Industrial (SU8, SU9)	Manufacture of Substance A 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, PROC8a, PROC8b, PROC15	ERC 1, ERC4, ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

4	Formulation of Sulfolane	Industrial (SU10)	Formulation, packing and re-packing of the substance and its 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, PROC7, PROC8a, PROC8b, PROC10, PROC13	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
5	Use of Sulfolane as a Cleaning Agent	Industrial	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.	PROC1, PROC2, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13	ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Scentinel T**
 EC number Preparations
 CAS number Preparations



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, PROC3, PROC8b, PROC15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1A	Distribution	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		
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, PROC15	ERC2
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
12	Use in Fuels	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, PROC8a, PROC8b, PROC15, PROC16	ERC7

	Professional (SU22)	Not applicable		
	Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Iso-octene**
 EC number **203-486-4**
 CAS number **107-39-1**



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 a substance	Industrial (SU8, SU3, 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, PROC 15	ERC1, ERC4
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
2	Use as an Intermediate	Industrial (SU8, SU3, 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		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Cyclohexane**
 EC number 203-806-2
 CAS number 110-82-7



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 a 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 the 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 sampling, storage, unloading and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
1B	Use as Intermediate	Industrial (SU3, SU8, SU9)	Use as an isolated intermediate under strictly controlled conditions	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC6A
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

2	Formulation & (re)packing of substances and mixtures	Industrial (SU3, SU10)	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfer, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15	
		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, PROC10, PROC13, PROC15	
		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, and film formation), and equipment cleaning, maintenance and associated laboratory activities.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposure during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.	PC1, PC4, PC15, PC18, PC23, PC24, PC31, PC0, PC13	
9	Use as a blowing agent	Industrial (SU3)	Use as a blowing agent for rigid and flexible foams, including material transfers, mixing and injection, curing, cutting, storage and packing	PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC12	

		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		
17	Use in laboratories	Industrial (SU3)	Use of the substance within laboratory settings, including material transfers and equipemnt cleaning	PROC10, PROC15	
		Professional (SU22)	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.	PROC10, PROC15	
		Consumer (SU21)	Not applicable		
12	Use as a fuel	Industrial (SU3)	Covers the use as a fule (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16	
		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	
		Consumer (SU21)	Covers consumer uses in liquid fuels	PC13	
4	Use in Cleaning Agents	Industrial (SU3)	Covers the use as a component of cleanign products including transfer from storage, pouring/unloading from drums or containers. Exposure during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by-hand) related equipment cleaning and maintenance.	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13	
		Professional (SU22)	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in teh preparatory pahse and cleaning activities (including spraying, brushing, dipping, wiping, automated and by-hand)	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19	

		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, PC24, PC35, PC38, PC0, Other: 9	
23	Polymer Processing	Industrial (SU3, SU10)	Manufacture of the substance or use as an intermediate or process solvent or extraction agents and subsequent recycling/ recovery, including material transfers, storage, and maintenance	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC13, PROC14	ERC6d
		Professional (SU22)	Manufacture of the substance or use as an intermediate or process solvent or extraction agents and subsequent recycling/ recovery, including material transfers, storage, and maintenance	PROC1, PROC2, PROC8a, PROC8b, PROC14	
		Consumer (SU21)	Not applicable		
	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, PROC8b, PROC8a, PROC14, PROC21	
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Polysulfides, di-tert-nonyl**
 EC number 270-336-2
 CAS number 68425-16-1



GES#	General Exposure Scenario Title (G)	Area of Application / UD	Scope	Applicable Process Categories (PROC) or Product Categories (PC)	Environmental Release Category
7	Metal working fluids/rolling oils	Industrial (SU17)	No applicable		
		Professional (SU22)	Covers the use in formulated MWFs 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.	PROC5	ERC4
		Consumer (SU21)	Not applicable		
1B	Use as an intermediate	Industrial (SU8)	Use of a substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	PROC2	ERC6b
		Professional (SU22)	Not applicable		
		Consumer (SU21)	Not applicable		

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INTENDED USES FROM CHEVRON PHILLIPS CHEMICALS

Product name **Methylcyclohexane**
 EC number 203-624-3
 CAS number 108-87-2



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 (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		

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