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ESIG/E			apping (Master 3/02/2010) es & Use Descriptor mapping do	cument	Blue text indicates updates to original	Low V	olatility Narrativ	o Statue	Moderate	Volatility Narr	ativo Statue	High Vo	latility Narrati	ivo Statue
GES Reference	GES Title		Draft GES scope / definition	Applicable Use Descriptors (PROC or PC)	Applicable Use Descriptors (ERC) Note: ERCs listed in brackets may also be appropriate	Low DNEL	Moderate DNEL	High DNEL	Low DNEL	Moderate DNEL	High DNEL	Low DNEL	Moderate DNEL	High DNEL
General Tit	Manufacture of substance	Industrial (SU3, SU8, SU9)	Manufacture of the substance or use as an intermediate or process chemical or extraction	PROC1, PROC2, PROC3,	Env group to add statement on use of SPERCs a. Manufacture of									
		309)	agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vesse/barge, road/rail car and bulk container), sampling and associated laboratory activities	PROC4, PROC8a, PROC8b, PROC15	substance or use as a process chemical: ERC1 (ERC4)									
					b. Use as an Intermediate: ERC6A. Note: A separate									
					environmental assessment is required as indicated. The same health assessment									
		Professional (SU22)	not applicable		applies in both cases.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1A	Distribution of substance	Consumer (SU21) Industrial (SU3, SU8, SU9)	not applicable Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance. including	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15	ERC1 (loading) ERC2 (repacking)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
			its sampling, storage, unloading distribution and associated laboratory activities											
		Professional (SU22) Consumer (SU21)	not applicable not applicable			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
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, tabletting, compression, pelletisation, extrusion, large and small scale packing,	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15	ERC2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
			sampling, maintenance and associated laboratory activities											
Identified S	olvent Titles (ESVOC)		not applicable			n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
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	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15	ERC 4									
		Professional (SU22)	equipment cleaning, maintenance and associated equipment cleaning, maintenance and associated 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	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11,	ERC 8A, ERC 8D (ERC8C, ERC8F)									
			by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.	PROC13, PROC15, PROC19										
		Consumer (SU21)	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation,	PC1, PC4, PC5, PC8 (excipien only) PC9, PC10, PC15, PC18,	ERC 8A, ERC 8D (ERC8C, ERC8F)							GES	GES	
4	Use in Cleaning Agents	Industrial (SU3)	application by brush, spray by hand or similar methods) and equipment cleaning. Covers the use as a component of cleaning	PC23, PC24, PC31, PC34 PROC1, PROC2, PROC3,	ERC4	n/a	n/a	n/a				expected soon	expected soon	
			products including transfer from storage, pouring/unloading from drums or containers. Exposures during mising/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment	PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13										
			automated and by hand), related equipment cleaning and maintenance.											
		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,	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13	ERC 8A, ERC 8D									
		Consumer (SU21)	dipping, wiping automated and by hand).	DC2 DC4 DC0 DC24 DC25	ERC 8A, ERC 8D									
		Consumer (3021)	from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.	PC38	ERC 64, ERC 6D							GES expected soon	GES expected soon	
5	Use in Oil and Gas field drilling and production operations	Industrial (SU3)	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC 4							n/a	n/a	n/a
		Professional (SU22)	related maintenance. Oil field well drilling operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC 8D									
			maintenance.									n/a	n/a	n/a
6	Lubricants	Consumer (SU21) Industrial (SU3)	not applicable Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles. reworking on relect articles, equipment	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10,	ERC 7, ERC 4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
			Covers the use of formulated lubricants in closed	PROC13, PROC17, PROC18					n/a	n/a	n/a	n/a	n/a	n/a
		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	ERC 8A, ERC 8D ERC 9A, ERC 9B				n/a	n/a	n/a	n/a	n/a	n/a
		Consumer (SU21)	Covers the consumer use of formulated lubricants in closed and open systems including transfer onerations, application, operation of	PC1, PC6, PC24, PC31	ERC 8A, ERC 8D ERC 9A, ERC 9B							GES expected	GES expected	
7	Metal working fluids / rolling oils	Industrial (SU3)	transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil. Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, curiting/machining activities.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC4, PROC5, PROC7,	ERC 4							soon	soon	
		Professional (SU22)	annealing activities, cutting machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and Covers the use in formulated MWFs including transfer operations, open and contained	PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17 PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b,	ERC 8A (ERC9A)							n/a	n/a	n/a
		Consumer (SU21)	cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils. not applicable	PROC9, PROC10, PROC11, PROC13, PROC17			n /0		2/0	2/2	n/a	n/a	n/a	n/a
9	Blowing agents	Industrial (SU3) Professional (SU22)	Use as a blowing agent for rigid and flexible foams, including material transfers, mixing and injection, curing, cutting, storage and packing not applicable	PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12	ERC 4	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a	n/a n/a	n/a n/a
10	Use as binders and release agents	Consumer (SU21) Industrial (SU3)	not applicable 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, PROC10, PROC10, PROC13,	ERC4 (ERC5)	n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	n/a n/a	n/a n/a
		Professional (SU22)	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	PROC14 PROC1, PROC2, PROC3, PROC4, PROC6, PROC 8a, PROC8b, PROC10, PROC11, PROC14	ERC 8A; ERC 8D (ERC8B, 8C, 8E, 8F)							n/a	n/a	n/a
11	Use in Agrochemicals uses-	Consumer (SU21) Industrial (SU3) Professional (SU22)	not applicable not applicable Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.	PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11,	ERC8A, ERC 8D	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Consumer (SU21)	togging; including equipment clean-downs and disposal. Covers the consumer use in agrochemicals in liquid and solid forms.	PROC13 PC12, PC22, PC27	ERC8A; ERC 8D	n/a	n/a	n/a				n/a GES expected	n/a GES expected	n/a
12	Use as a fuel	Industrial (SU3) Professional (SU22)	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of Covers the use as a fuel (or fuel additive) and	PROC1, PROC2, PROC3, PROC4 , PROC8a, PROC8b, PROC16 PROC1, PROC2, PROC3,	ERC7 (ERC8B) ERC9A; ERC9B							n/a	n/a	n/a
			includes activities associated with its transfer, use, equipment maintenance and handling of waste.	PROC4, PROC8a, PROC8b, PROC16	(ERC 8B, ERC 8E)							n/a GES	n/a GES	n/a
13	Functional Fluids	Consumer (SU21) Industrial (SU3)	Covers consumer uses in liquid fuels Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equivment including	PC13 PROC1, PROC2, PROC3, PROC4, PROC 8a, PROC 8b,	ERC9A; ERC9B (ERC 8B, ERC 8E) ERC 7							expected n/a	expected n/a	n/a
		Professional (SU22)	maintenance and related material transfers Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional enuinment including	PROC9 PROC1, PROC2, PROC3, PROC 8a, PROC9, PROC20	ERC 9A, ERC 9B									
		Consumer (SU21)	maintenance and related material transfers.	PC16, PC17	ERC 9A, ERC 9B							n/a GES	n/a GES	n/a
14	De-icing and anti-icing applications	Industrial (SU3) Professional (SU22)	not applicable Ice prevention and de-icing of vehicles, aircraft	PROC1, PROC2, PROC8a,	ERC 8D	n/a	n/a	n/a	n/a	n/a	n/a	expected soon n/a	expected soon n/a	n/a
45	Destante i "	Consumer (SU21)	and other equipment by spraying De-icing of vehicles and similar equipment by spraying	PROC8b, PROC11 PC4	ERC 8D	n/a	n/a	n/a	n/a	n/a	n/a	n/a 0	n/a GES expected	n/a GES expected
15	Road and construction applications	Industrial (SU3) Professional (SU22)	not applicable Refers to bitumen blending. Covered under 'Formulation' Application of surface coatings and binders in road and construction activities, including paving uses, manual mastic and in the application of	PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13	ERC8D (ERC8F)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		Consumer (SU21)	roofing and water-proofing membranes			n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	n/a n/a	n/a n/a

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16	Other Consumer Uses	Consumer (SU21)	Consumer uses not covered in consumer examples listed above e.g. uses a carrier in cosmetics/personal care products, perfumes and fragrances. Products, risk assessment o regured for the environment und REACH as human health is cove by alternative texication.	r'								GES expected soon	GES expected soon
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	ERC 8A									
		Consumer (SU21)	not applicable		n/a	n/a							
CONCA	WE Titles (additional to ESVOC)												
18	Explosives manufacture & use	Industrial (SU3)	Not applicable - Covered under Formulation		n/a	n/a							
		Professional (SU22)	Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning	ERC 8D				n/a	n/a	n/a	n/a	n/a	n/a
		Consumer (SU21)	not applicable		n/a	n/a							
19	Rubber production and processing	Industrial (SU3, SU10)	Manufacture of tyres and general nubber articles, Including processing of raw (uncarred) rubber, handling and mixing of rubber additives, vulcanising, cooling and finishing. PROC4, PROC8, PROC8, PROC4, PROC8,	ERC1; ERC4 (ERC3; ERC 6D)							n/a	n/a	n/a
		Professional (SU22)	not applicable		n/a	n/a							
		Consumer (SU21)	not applicable		n/a	n/a							
Other Te	entative Titles (ATIEL, polymers,												
23	Polymer processing	Industrial (SU10)	Processing of formulated polymere inclusing material transfers, additives handling (e.g., pigments, stabilisers, filters, plasticisers, etc.), prouding_curing and forming activities, material re-works, storage and associated maintenance.	ERC4 (ERC3, ERC5, ERC6D)							n/a	n/a	n/a
		Professional (SU22)	Processing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated PROC2, PROC2, PROC6, PROC28, PROC24 PROC21	ERC 8A (ERC8C, 8D, 8F)							n/a	n/a	n/a
		Consumer (SU21)	not applicable		n/a	n/a							
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	ERC3 (ERC4)							n/a	n/a	n/a
		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 (ERC8A, 8B, 8C, 8D, 8E)							n/a	n/a	n/a
		Consumer (SU21)	Covers the use of the substance for the treatment of water in open and closed systems	ERC8F (ERC8A, 8B, 8C, 8D, 8E)	n/a	n/a							
22	Mining chemicals	Industrial (SU3)	Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal.	ERC4 (ERC 8D)							n/a	n/a	n/a
		Professional (SU22) Consumer (SU21)	not applicable		n/a	n/a							

	C9 Aromatics		
nce	GES Title - refer to GES Titles & Use Mapping worksheet for Use Descriptor details.		TONNES DED ANNUM (Entimate)
al Tit	tles		TONNES PER ANNUM (Estimate) Hydrocarbons, C9, aromatics
	Manufacture of substance or use as process chemical or extraction agent	Industrial (SU3, SU8, SU9)	YES
	Use as intermediate (not subject to strictly controlled conditions)	Industrial (SU3, SU8, SU9)	
	Distribution of substance	Industrial (SU3, SU8, SU9)	YES
		Professional (SU22)	n/a
		Consumer (SU21)	n/a
	Formulation & (re)packing of substances and mixtures	Industrial (SU10)	YES
		Professional (SU22) Consumer (SU21)	n/a
		Consumer (SU21)	n/a
leu a	Solvent Titles (ESVOC) Uses in Coatings	Industrial (SU3)	
	Uses in coatings	Professional (SU22)	YES
		Consumer (SU21)	YES
	Use in Cleaning Agents	Industrial (SU3)	YES
	Use III Cleaning Agents	Professional (SU22)	YES
		Consumer (SU21)	YES
	Use in Oil field drilling and production operations	Industrial (SU3)	YES
	obe in on held drining and production operations	Professional (SU22)	YES
		Consumer (SU21)	
	Lubricants	Industrial (SU3)	n/a
		Professional (SU22)	YES
		Consumer (SU21)	YES
	Metal working fluids / rolling oils	Industrial (SU3)	YES
		Professional (SU22)	YES
		Consumer (SU21)	YES
	Blowing agents	Industrial (SU3)	n/a
		Professional (SU22)	
		Consumer (SU21)	n/a
	Use as binders and release agents	Industrial (SU3)	n/a
			YES
		Professional (SU22)	¥50
		Consumer (SU21)	YES
	Agrochemical uses	Industrial (SU3)	n/a
		Professional (SU22)	n/a
		Consumer (SU21)	YES
	Use as a fuel	Industrial (SU3)	YES
		Professional (SU22)	YES
		Consumer (SU21)	YES
	Functional Fluids		YES
	Functional Fluids	Industrial (SU3) Professional (SU22)	YES
		Consumer (SU21)	YES
	De-icing and anti-icing applications	Industrial (SU3)	YES
	De-icing and anti-icing applications	Professional (SU22)	n/a
	Deed and exerts after analizations	Consumer (SU21)	-
	Road and construction applications	Industrial (SU3) Professional (SU22)	n/a
		Consumer (SU22)	YES
	Other Consumer Uses	Consumer (SU21) Consumer (SU21)	n/a
	Use in laboratories	Industrial (SU3)	
		Professional (SU22)	YES
		Consumer (SU21)	YES
AW	E Titles (additional to ESVOC)	(3021)	n/a
	Explosives manufacture & use	Industrial (SU3)	
	any control management of upp	Professional (SU22)	n/a
		Consumer (SU21)	
	Rubber production and processing	Industrial (SU3, SU10)	n/a
		Professional (SU22)	
		Consumer (SU21)	n/a
Tent	ative Titles (ATIEL, polymers, etc.)		n/a
	Polymer processing	Industrial (SU10)	N/EO
	.,	Professional (SU22)	YES
		Consumer (SU21)	YES
Pos	sible Titles	(3021)	n/a
	Water treatment chemicals	Industrial (SU3)	N/FO
	, and the second s	Professional (SU22)	YES
			YES
		Consumer (SLI24)	
	Mining chemicals	Consumer (SU21)	
	Mining chemicals	Consumer (SU21) Industrial (SU3) Professional (SU22)	n/a

ES	C10-12 Aromatics GES Title - refer to GES Titles & Use	5				
erence	Mapping worksheet for Use Descriptor details.		USE COVERED			
eral Ti	tles		Hydrocarbons, C10, aromatics, >1% naphthalene	Hydrocarbons, C10, aromatics, <pre></pre> <pr< th=""><th>Hydrocarbons, C10-C13, aroma <1% naphthalene</th><th>tics, Hydrocarbons, C10-C13, aromatics, >1% naphthalene</th></pr<>	Hydrocarbons, C10-C13, aroma <1% naphthalene	tics, Hydrocarbons, C10-C13, aromatics, >1% naphthalene
	Manufacture of substance or use as process chemical or extraction agent	Industrial (SU3, SU8, SU9)	YES	YES	YES	YES
	Use as intermediate (not subject to strictly controlled conditions)	Industrial (SU3, SU8, SU9)				
	Distribution of substance	Industrial (SU3, SU8, SU9)	YES	YES	YES	YES
		Professional (SU22)	n/a			
		Consumer (SU21)	n/a			
	Formulation & (re)packing of substances and mixtures	Industrial (SU10)	YES	YES	YES	YES
		Professional (SU22)	n/a			
		Consumer (SU21)	n/a			
ntified S	Solvent Titles (ESVOC)					
	Uses in Coatings	Industrial (SU3)	YES	YES	YES	YES
		Professional (SU22)	YES	YES	YES	
		Consumer (SU21)	YES	YES	YES	
	Use in Cleaning Agents	Industrial (SU3)	YES	YES	YES	YES
		Professional (SU22)	YES	YES		
		Consumer (SU21)	YES	YES		
	Use in Oil field drilling and production operations	Industrial (SU3)	YES	YES		
		Professional (SU22)				
		Consumer (SU21)	n/a			
	Lubricants	Industrial (SU3)	YES	YES	YES	
		Professional (SU22)	YES	YES		
	Matal condition fields for ¹⁰	Consumer (SU21)	YES	YES		
	Metal working fluids / rolling oils	Industrial (SU3)	YES	YES		
		Professional (SU22)	YES	YES		
		Consumer (SU21)	n/a			
	Blowing agents	Industrial (SU3)				
		Professional (SU22) Consumer (SU21)	n/a			
	Use as binders and release agents	Industrial (SU3)	n/a			
	Use as billuers and release agents	Professional (SU22)	YES	YES	YES	
		Consumer (SU21)	YES	YES		
			n/a			
	Agrochemical uses	Industrial (SU3)	n/a			
		Professional (SU22)	YES	YES	YES	YES
		Consumer (SU21)	YES	YES	YES	YES
	Use as a fuel	Industrial (SU3)	YES	YES	YES	YES
		Professional (SU22)	YES	YES	YES	
		Consumer (SU21)	YES	YES	YES	YES
	Functional Fluids	Industrial (SU3)	YES	YES		
		Professional (SU22)	YES	YES		
		Consumer (SU21)	YES	YES		
	De-icing and anti-icing applications	Industrial (SU3)	n/a			
		Professional (SU22)				
		Consumer (SU21)				
	Road and construction applications	Industrial (SU3)	n/a			
		Professional (SU22)	YES	YES		
		Consumer (SU21)	n/a			
	Other Consumer Uses	Consumer (SU21)				
	Use in laboratories	Industrial (SU3)	YES	YES		
		Professional (SU22)	YES	YES		
	Titles (additions) to FOUOD	Consumer (SU21)	n/a			
	Titles (additional to ESVOC)	Industrial (0110)				
	Explosives manufacture & use	Industrial (SU3)	n/a			
		Professional (SU22)				
	Dubber production and processing	Consumer (SU21)	n/a			
	Rubber production and processing	Industrial (SU3, SU10) Professional (SU22)				
		Professional (SU22)	n/a			
or Tor	ativo Titlos (ATIE) - naturnare ata)	Consumer (SU21)	n/a			
ier rent	ative Titles (ATIEL, polymers, etc.)	Industrial (\$1110)				
	Polymer processing	Industrial (SU10) Professional (SU22)		YES	YES	
			YES		YES	
or Per	sible Titles	Consumer (SU21)	n/a			
ier POSt	sible Titles Water treatment chemicals	Industrial (CL12)				
	water meaning clienticals	Industrial (SU3) Professional (SU22)	YES	YES		_
		Consumer (SU21)	YES	YES	-	
	Mining chemicals	Industrial (SU3)				
	ing onormound	Professional (SU22)				
		Consumer (SU21)	n/a			
		Gonaumer (SU21)	n/a			

е	GES Title - refer to GES Titles & Use		romatics)					
	GES Title - refer to GES Titles & Use Mapping worksheet for Use Descriptor details.		USES COVERED					
itles	3							
			Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	Hydrocarbons, C8-12, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)	Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	Hydrocarbons. C10-C isoalkanes. cyclics, aromatics(2-25%)
N	Manufacture of substance or use as process shemical or extraction agent	Industrial (SU3, SU8, SU9)	YES	aromatics (2-25%) YES	YES	YES	aromatics (2-25%) YES	Aromatics(2-25%)
τ.	Use as intermediate (not subject to strictly controlled conditions)	Industrial (SU3, SU8, SU9)						
C	Distribution of substance	Industrial (SU3, SU8, SU9)		YES	YES	YES	YES	
		Professional (SU22)	n/a					
	Formulation & (re)packing of substances and	Consumer (SU21) Industrial (SU10)	n/a					
n	nixtures	Professional (SU22)	YES	YES	YES	YES	YES	
		Consumer (SU21)	n/a					
Soh	vent Titles (ESVOC)		n/a					
ι	Jses in Coatings	Industrial (SU3)	YES	YES	YES	YES		YES
		Professional (SU22)	120	YES	YES	YES		T LO
		Consumer (SU21)	YES	YES	YES	YES		YES
ι	Jse in Cleaning Agents	Industrial (SU3)	YES	YES	YES	YES	YES	YES
		Professional (SU22)	YES	YES	YES	YES	YES	
		Consumer (SU21)		YES	YES	YES	YES	
L	Jse in Oil field drilling and production operations	Industrial (SU3) Professional (SU22)						_
		Consumer (SU21)	r la					
L	ubricants	Industrial (SU3)	n/a	YES	YES	YES	YES	YES
		Professional (SU22)		YES	YES	YES	TEO	TES
		Consumer (SU21)		YES	YES	YES		
N	Metal working fluids / rolling oils	Industrial (SU3)		YES	YES	YES		YES
		Professional (SU22)		YES	YES	YES		
		Consumer (SU21)	n/a					
E	Blowing agents	Industrial (SU3)						
		Professional (SU22) Consumer (SU21)	n/a					
I	Jse as binders and release agents	Industrial (SU3)	n/a	VEC			VEC	
		Professional (SU22)		YES			YES YES	
		Consumer (SU21)	n/a				TES	
A	Agrochemical uses	Industrial (SU3)						
		Professional (SU22)	n/a	YES		YES		
		Consumer (SU21)		120		YES		
ι	Jse as a fuel	Industrial (SU3)		YES	YES	YES	YES	
		Professional (SU22)		YES	YES	YES		
		Consumer (SU21)		YES	YES	YES		
F	Functional Fluids	Industrial (SU3)		YES	YES	YES		YES
		Professional (SU22)		YES	YES	YES		
	De-icing and anti-icing applications	Consumer (SU21)		YES	YES	YES		
C	renumber of an ann-rong applications	Industrial (SU3) Professional (SU22)	n/a					
		Consumer (SU21)						
F	Road and construction applications	Industrial (SU3)	n/a					
		Professional (SU22)	li/d	YES	YES	YES	YES	
		Consumer (SU21)	n/a					
c	Other Consumer Uses	Consumer (SU21)	10.04					
L	Jse in laboratories	Industrial (SU3)		YES	YES	YES		
		Professional (SU22)		YES	YES	YES		
(F *		Consumer (SU21)	n/a					
	itles (additional to ESVOC) Explosives manufacture & use	Industrial (SU3)						
-		Professional (SU22)	n/a					
		Consumer (SU21)	n/a					
F	Rubber production and processing	Industrial (SU3, SU10)	n/a					
		Professional (SU22)	n/a					
		Consumer (SU21)	n/a					
	ve Titles (ATIEL, polymers, etc.)							
F	Polymer processing	Industrial (SU10)						
		Professional (SU22)						
a a libr	le Titles	Consumer (SU21)	n/a					
	le Titles Water treatment chemicals	Industrial (SU3)					1/20	
'		Professional (SU22)					YES	
		Consumer (SU21)					YES	
N	Mining chemicals	Industrial (SU3)						
		Professional (SU22)	n/a					
		Consumer (SU21)	n/a					

Interaction of existion age: Base of existion age:	GES Title - refer to GES Titles & Use Mapping worksheet for Use Descriptor details.	9	USES COVERED	
Model of fields of all all starts in the starts of all all starts in the starts of all all all starts in the starts of all all all all all all all all all al	85		alkanes, isoalkanes, cyclics,	Hydrocarbons, C16-C20, n-al isoalkanes, cyclics, aromatics
Intermediate loss skaped is shaped is shape	Manufacture of substance or use as process chemical or extraction agent	Industrial (SU3, SU8, SU9)		
network Protection Consumer (2017)n/kareferso (2017)Formulation & longituding (2017)n/ka(2018)Formulation & longituding (2017)n/ka(2018)Formulation & longituding (2017)n/ka(2018)Statust Taus (2007)(2012)n/ka(2018)Statust Taus (2017)n/ka(2018)(2018)Statust Taus (2017)(2018)(2018)(2018)Statust (2017)(2018)(2018)(2018)Statust (2017)(2018)(2018)(2018)Statust (2017)(2018)(2018)(2018)Statust (2018)(2018)(2018)(2018)Statust (2018)(2018)(2018)(2018)Statust (2018)(2018)(2018)(2018)Statust	Use as intermediate (not subject to strictly	Industrial (SU3, SU8,		
Image Image Image Formation I, trippacting of additional and a second	Distribution of substance		YES	YES
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Professional (SU22)		Consumer (SU21)		
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Other Consumer Uses Consumer (SU21) In/a Use in laboratories Industrial (SU3) YES YES Professional (SU22) Consumer (SU21) n/a Re Titles (additional to ESVOC) Industrial (SU3) n/a Explosives manufacture & use Industrial (SU2) YES Consumer (SU21) n/a YES Professional (SU22) n/a YES Professional (SU22) n/a YES Professional (SU22) N/a YES Professional (SU22) YES YES Professional (SU22) YES YES Yerdessional (SU22) YES YES Yerdessional (SU22) YES YES				
Use in laboratories Industrial (SU3) YES YES Professional (SU22) Consumer (SU21) n/a Explosives manufacture & use Industrial (SU3) n/a Professional (SU22) YES Consumer (SU21) n/a Professional (SU22) YES Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Polymer processing Industrial (SU10) YES Professional (SU22) Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) n/a Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) n/a Vater treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3)	Other Consumer Lines		n/a	
Industrial (SU2) YES Professional (SU22) In/a Consumer (SU21) n/a Explosives manufacture & use Industrial (SU3) n/a Professional (SU22) YES Consumer (SU21) n/a Professional (SU22) YES Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Professional (SU22) n/a Onsumer (SU21) n/a Professional (SU22) n/a Professional (SU22) n/a Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) n/a Vater treatment chemicals Industrial (SU3) Industrial (SU3) Professional (SU22) Consumer (SU21) Industrial (SU3) Mining chemicals Industrial (SU3) Industrial (SU3) Professional (SU22) Industrial (SU3) Industrial (SU3)				
Consumer (SU21) n/a Explosives manufacture & use Industrial (SU3) n/a Professional (SU22) YES Consumer (SU21) n/a Professional (SU22) YES Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Professional (SU22) n/a Consumer (SU21) n/a Professional (SU22) n/a Professional (SU22) n/a Professional (SU22) n/a Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) n/a xsable Titles Industrial (SU3) Water treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22)	Use in laboratories		YES	YES
ME Titles (additional to ESVOC) Industrial (SU3) In/a Explosives manufacture & use Industrial (SU3) In/a Professional (SU22) YES Consumer (SU21) In/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) In/a Professional (SU22) In/a Consumer (SU21) In/a Professional (SU22) In/a Polymer processing Industrial (SU10) Professional (SU22) In/a Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) In/a professional (SU22) In/a Vater treatment chemicals Industrial (SU3) Professional (SU22) Industrial (SU2) Mining chemicals Industrial (SU3) Professional (SU22) Industrial (SU3) Pr				
Explosives manufacture & use Industrial (SU3) n/a Professional (SU22) YES Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Professional (SU22) n/a Consumer (SU21) n/a Industrial (SU3, SU10) Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Industrial (SU10) YES Polymer processing Industrial (SU22) Consumer (SU21) n/a Professional (SU22) Consumer (SU21) water treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Industrial (SU3) Professional (SU22) Professional (SU22) Consumer (SU21) Industrial (SU3)		Consumer (SU21)	n/a	
Inva Professional (SU22) YES Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Consumer (SU21) n/a Consumer (SU21) n/a Polymer processing Industrial (SU10) Polymer processing Industrial (SU10) Professional (SU22) Polymer processing Industrial (SU10) Versional (SU22) Professional (SU22) Vater treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) n/a Mining chemicals Industrial (SU3) Professional (SU22) Mining chemicals Industrial (SU3)				
Professional (SU22) YES Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Professional (SU22) n/a Consumer (SU21) n/a Industrial (SU3, SU10) YES Polymer processing Industrial (SU10) Professional (SU22) YES Professional (SU22) Consumer (SU21) Water treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Industrial (SU3) Professional (SU22) Industrial (SU3)	Explosives manufacture & use		n/a	
Consumer (SU21) n/a Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Professional (SU22) n/a Polymer processing Industrial (SU10) YES Professional (SU22) Professional (SU22) Consumer (SU21) Water treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Consumer (SU21)		Professional (SU22)		YES
Rubber production and processing Industrial (SU3, SU10) Professional (SU22) n/a Consumer (SU21) n/a Industrial (SU10) YES Polymer processing Industrial (SU20) Professional (SU22) Professional (SU22) Polymer processing Industrial (SU10) YES Professional (SU22) Professional (SU22) Consumer (SU21) Professional (SU22) Professional (SU22) Vater treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Professional (SU22) Mining chemicals Industrial (SU3)		Consumer (SU21)	n/a	
Inva Consumer (SU21) n/a Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) n/a Sesible Tities Industrial (SU3) Water treatment chemicals Industrial (SU3) Professional (SU22) Industrial (SU3) Mining chemicals Industrial (SU3) Professional (SU22) Industrial (SU3) Professional (SU22) Industrial (SU3)	Rubber production and processing	Industrial (SU3, SU10)		
Consumer (SU21) n/a Polymer processing Industrial (SU10) YES Professional (SU22)		Professional (SU22)	n/a	
Industrial (SU10) YES Polymer processing Industrial (SU10) YES Professional (SU22) Consumer (SU21) n/a ossible Titles Industrial (SU3) Industrial (SU3) Water treatment chemicals Industrial (SU22) Industrial (SU22) Mining chemicals Industrial (SU3) Industrial (SU3) Mining chemicals Industrial (SU3) Industrial (SU3)		Consumer (SU21)		
Image: scale of the state of the s	tive Titles (ATIEL, polymers, etc.)			
Professional (SU22) n/a Consumer (SU21) n/a pssible Titles Industrial (SU3) Water treatment chemicals Industrial (SU3) Professional (SU22) Consumer (SU21) Mining chemicals Industrial (SU3) Professional (SU22) Professional (SU22) Professional (SU22) n/a	Polymer processing	Industrial (SU10)	YES	
Image: system Image: system Water treatment chemicals Industrial (SU3) Professional (SU22) Image: system Consumer (SU21) Image: system Mining chemicals Industrial (SU3) Professional (SU22) n/a		Professional (SU22)		
Industrial (SU3) Water treatment chemicals Industrial (SU3) Professional (SU22) Industrial (SU3) Mining chemicals Industrial (SU3) Professional (SU22) n/a		Consumer (SU21)	n/a	
Professional (SU22)	ble Titles		1//4	
Mining chemicals Industrial (SU2) Professional (SU22) n/a	Water treatment chemicals	Industrial (SU3)		
Mining chemicals Industrial (SU2) Professional (SU22) n/a		Professional (SU22)		
Mining chemicals Industrial (SU3) Professional (SU22) n/a				
Professional (SU22) n/a	Mining chemicals	, ,		
11/a	-			

S ference	C5 Aliphatics					
	worksheet for Use Descriptor details.		USES COVERED			
neral T	itles		Normal-Pentane	ISO-Pentane	Cyclopentane	Hydrocarbons, C5, n-alk isoalkanes
	Manufacture of substance or use as process chemical or extraction agent	Industrial (SU3, SU8, SU9)	YES	YES	YES	YES
	Use as intermediate (not subject to strictly controlled conditions)	Industrial (SU3, SU8, SU9)				
	Distribution of substance	Industrial (SU3, SU8, SU9)	YES	YES	YES	YES
		Professional (SU22) Consumer (SU21)	n/a			
	Formulation & (re)packing of substances and	Industrial (SU10)	n/a			
	mixtures	Professional (SU22)	YES	YES	YES	YES
		Consumer (SU21)	n/a			
ntified	Solvent Titles (ESVOC)		n/a			
	Uses in Coatings	Industrial (SU3)	VEC	VEO		VEC
		Professional (SU22)	YES	YES		YES
		Consumer (SU21)				
			YES			YES
	Use in Cleaning Agents	Industrial (SU3)	YES	YES		
		Professional (SU22)	YES			
		Consumer (SU21)	YES			YES
	Use in Oil field drilling and production operations	Industrial (SU3)				
		Professional (SU22)				
	Lubricants	Consumer (SU21) Industrial (SU3)	n/a			
	Cooncento	Professional (SU22)				
		Consumer (SU21)				
	Metal working fluids / rolling oils	Industrial (SU3)				
	-	Professional (SU22)				
		Consumer (SU21)				
			n/a			
	Blowing agents	Industrial (SU3)	YES	YES	YES	YES
		Professional (SU22)	n/a			
		Consumer (SU21)	n/a			
	Use as binders and release agents	Industrial (SU3)				
		Professional (SU22)				
	Agrochemical uses	Consumer (SU21) Industrial (SU3)	n/a			
	Agrochemical uses	Industrial (SU3)	n/a			
		Professional (SU22)				
		Consumer (SU21)				
	Use as a fuel	Industrial (SU3)	¥50		N/50	
		Professional (SU22)	YES	YES	YES	
		Consumer (SU21)	YES	YES		
	Functional Fluids	Industrial (SU3)	YES	YES		YES
		Professional (SU22)	YES	YES		YES
		Consumer (SU21)				
	De-icing and anti-icing applications	Industrial (SU3)	n/a			
		Professional (SU22)				
		Consumer (SU21)				
	Road and construction applications	Industrial (SU3)	n/a			
		Professional (SU22)				
	Other Consumer Uses	Consumer (SU21) Consumer (SU21)	n/a			
	Use in laboratories	Industrial (SU3)	YES	YES	YES	YES
		Professional (SU22)	YES	YES	YES	YES
		Consumer (SU21)	YES	YES	YES	YES
NCAW	E Titles (additional to ESVOC)					
	Explosives manufacture & use	Industrial (SU3)	n/a			
		Professional (SU22)	1//4			
		Consumer (SU21)	n/a			
	Rubber production and processing	Industrial (SU3, SU10)				
		Professional (SU22)	n/a			
		Consumer (SU21)	n/a			
ier Ten	ntative Titles (ATIEL, polymers, etc.)	the second second				
	Polymer processing	Industrial (SU10)				
		Professional (SU22) Consumer (SU21)				
	saible Tides	Consumer (SU21)	n/a			
ier Por						
ner Pos		Industrial (SU3)		1	1	1
ner Pos	Water treatment chemicals	Industrial (SU3) Professional (SU22)				
her Pos						
ner Pos		Professional (SU22)				
er Pos	Water treatment chemicals	Professional (SU22) Consumer (SU21)	n/a			

GES Reference	C6 Aliphatics GES Title - refer to GES Titles & Use Mapping worksheet for Use Descriptor							
General Titl	details.		TONNES PER ANNUM	(Estimate)	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclics, n-hexane	Hydrocarbons, C5-C7, n- alkanes, isoalkanes, < 5% n-	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-	Hydrocarbons, C5-C7, n- alkanes, isoalkanes, n-
1	Manufacture of substance or use as process	Industrial (SU3, SU8, SU9)	Normal-Hexane YES	Iso-Hexane YES	rich YES	hexane	hexane YES	hexane rich YES
	chemical or extraction agent Use as intermediate (not subject to strictly	Industrial (SU3, SU8,	TES	TES	TES	YES	TES	TES
A	controlled conditions) Distribution of substance	SÚ9) Industrial (SU3, SU8,	YES	YES	YES	YES	YES	YES
		SU9) Professional (SU22)	n/a					
		Consumer (SU21)	100					
	Formulation & (re)packing of substances and mixtures	Industrial (SU10)	YES	YES	YES	YES	YES	YES
		Professional (SU22) Consumer (SU21)	n/a					
lentified S	olvent Titles (ESVOC)		n/a					
	Uses in Coatings	Industrial (SU3) Professional (SU22)	YES	YES	YES		YES	
		Consumer (SU21)	YES	YES	YES		YES	
	Use in Cleaning Agents	Industrial (SU3)	YES	YES	VEO	VEC	YES	
		Professional (SU22)	YES YES	YES YES	YES YES	YES YES	YES YES	YES
		Consumer (SU21)	TES	YES	YES	YES	YES	YES
	Use in Oil field drilling and production operations	Industrial (SU3)					TL5	
	operations	Professional (SU22)						
		Consumer (SU21)	n/a					
	Lubricants	Industrial (SU3)		YES	YES		YES	
		Professional (SU22)		YES			YES	
	Metal working fluids / rolling oils	Consumer (SU21)		YES				
	Metal working fluids / rolling oils	Industrial (SU3)		YES				
		Professional (SU22) Consumer (SU21)		YES				
	Blowing agents	Industrial (SU3)	n/a	VEO	VEO			
		Professional (SU22)	YES n/a	YES	YES			
		Consumer (SU21)	n/a					
)	Use as binders and release agents	Industrial (SU3)	n/a	YES				
		Professional (SU22)		YES				
		Consumer (SU21)	n/a					
1	Agrochemical uses	Industrial (SU3)	n/a					
		Professional (SU22) Consumer (SU21)			YES			
2	Use as a fuel	Industrial (SU3)		YES				YES
		Professional (SU22)		YES				YES
		Consumer (SU21)		YES				YES
3	Functional Fluids	Industrial (SU3)	YES	0				. 20
		Professional (SU22)	YES					
		Consumer (SU21)						
	De-icing and anti-icing applications	Industrial (SU3)	n/a					
		Professional (SU22)						
	Road and construction applications	Consumer (SU21) Industrial (SU3)						
	and construction applications	Professional (SU22)	n/a					
		Consumer (SU21)	n/a					
	Other Consumer Uses	Consumer (SU21)	YES	YES				
	Use in laboratories	Industrial (SU3)	YES	YES	YES	YES		YES
		Professional (SU22)	YES	YES	YES	YES		YES
		Consumer (SU21)	n/a					
DNCAWE	Titles (additional to ESVOC) Explosives manufacture & use	Industrial (SU3)	n/a					
		Professional (SU22)	11/a	YES				
		Consumer (SU21)	n/a					
	Rubber production and processing	Industrial (SU3, SU10)		YES				
		Professional (SU22)	n/a					
hor T	tive Titles (ATIEL, polymers, etc.)	Consumer (SU21)	n/a					
her Tenta	tive Titles (ATIEL, polymers, etc.) Polymer processing	Industrial (SU10)	YES	YES	YES			
		Professional (SU22)	YES					
ther Posei	ible Titles	Consumer (SU21)	n/a					
ther Possi	Water treatment chemicals	Industrial (SU3)		YES				
		Professional (SU22)						
-		Consumer (SU21)						
2	Mining chemicals	Industrial (SU3)	YES	YES	YES			
		Professional (SU22) Consumer (SU21)	n/a					
		500000000 (5021)	n/a					

	C7 9 Aliphatics													
GES Reference	C7-9 Aliphatics GES Title - refer to GES Titles & Use Mapping worksheet for Use Descriptor													
General Tit	octails.		TONNES PER ANNUM (E	stimate)	Hydrocarbons, C6-C7, n-		Hydrocarbons C6-C10 n-							l
			Hydrocarbons, C7, n-alkane isoalkanes, cyclics	Hydrocarbons, C6-C7, n- s, alkanes, isoalkanes, cyclics, > 5% n-hexane	alkanes, isoalkanes, cyclics, < 5% n-hexane	Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclic	Hydrocarbons, C6-C10, n- alkanes, isoalkanes, > 5% n- s hexane	Hydrocarbons, C7-C9, isoalkanes	Hydrocarbons, C7-C8, cyclics	Normal-Heptane	Iso-Heptane	Normal-Octane	Iso-Octane	Nonane
1	Manufacture of substance or use as process chemical or extraction agent Use as intermediate (not subject to strictly controlled conditions)	Industrial (SU3, SU8, SU9) Industrial (SU3, SU8, SU9)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
1A	controlled conditions) Distribution of substance	Industrial (SU3, SU8, SU9)	YES	YES	YES	YES			YES	YES	YES	YES	YES	YES
		Professional (SU22)	n/a											ļ
2	Formulation & (re)packing of substances and mixtures	Consumer (SU21) Industrial (SU10)	n/a											
	mixtures	Professional (SU22)	YES n/a	YES	YES	YES			YES	YES	YES	YES	YES	YES
		Consumer (SU21)	n/a											
Identified S	olvent Titles (ESVOC)													ļ
3	Uses in Coatings	Industrial (SU3) Professional (SU22)	YES	YES	YES	YES			YES YES		YES		YES	H
		Consumer (SU21)	YES	YES	YES	YES			169		YES		YES	[
			YES	YES	YES	YES			YES		YES		YES	
4	Use in Cleaning Agents	Industrial (SU3)												
		Professional (SU22)	YES YES	YES YES	YES YES	YES YES		YES	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES
		Consumer (SU21)	YES	YES	YES	YES			YES	123	YES	113	YES	1123
5	Use in Oil field drilling and production operations	Industrial (SU3)							YES				_	
		Professional (SU22) Consumer (SU21)	ar 1 -											
6	Lubricants	Industrial (SU3)	n/a YES		YES	YES								
		Professional (SU22)	YES		YES	YES								
7	Metal working fluids / rolling oils	Consumer (SU21) Industrial (SU3)	YES		YES	YES								
'	www.working mans / rolling oils	Professional (SU22)	YES		YES	YES								
		Consumer (SU21)			YES	YES								
			n/a											
9	Blowing agents	Industrial (SU3) Professional (SU22)	YES						YES					
		Consumer (SU21)	n/a n/a											
10	Use as binders and release agents	Industrial (SU3)	YES	YES	YES	YES								[
		Professional (SU22)	YES		YES	YES								
11	Agrochemical uses	Consumer (SU21) Industrial (SU3)	n/a											l
		Professional (SU22)	n/a YES							YES	YES			
		Consumer (SU21)	YES							120	120			
12	Use as a fuel	Industrial (SU3) Professional (SU22)	YES		YES	YES			YES	YES		YES	YES	l
		Consumer (SU21)	YES YES		YES YES	YES YES	YES YES	YES					YES YES	H
13	Functional Fluids	Industrial (SU3)	115		YES	YES	123	115					123	[
		Professional (SU22)			YES	YES								
14	De-icing and anti-icing applications	Consumer (SU21) Industrial (SU3)			YES	YES								
		Professional (SU22)	n/a											
		Consumer (SU21)												
15	Road and construction applications	Industrial (SU3) Professional (SU22)	n/a											
		Consumer (SU22)	n/a		YES	YES								
	Other Consumer Uses	Consumer (SU21)	YES						YES					
17	Use in laboratories	Industrial (SU3)	YES	YES	YES	YES			YES	YES		YES	YES	YES
		Professional (SU22) Consumer (SU21)	YES	YES	YES	YES			YES	YES		YES	YES	YES
CONCAWE	Titles (additional to ESVOC)		n/a											
18	Explosives manufacture & use	Industrial (SU3)	n/a											
		Professional (SU22) Consumer (SU21)												
21	Rubber production and processing	Industrial (SU3, SU10)	n/a YES			YES			YES					
		Professional (SU22)	n/a			1E9			169					
		Consumer (SU21)	n/a											
	tive Titles (ATIEL, polymers, etc.) Polymer processing	Industrial (SU10)				N/=			N=-					
-		Professional (SU22)	YES			YES	+		YES					
		Consumer (SU21)	n/a											
	Ible Titles	Industry - Color Ma												
21	Water treatment chemicals	Industrial (SU3) Professional (SU22)												ŀ
		Consumer (SU21)					+		+					[
22	Mining chemicals	Industrial (SU3)	YES											
		Professional (SU22) Consumer (SU21)	n/a											
		consumer (Suz1)	n/a											

C9-14 Aliphatics C55 Reference C55 Title - refer to C55 Titles & Use Mappin worksheet for Use Descriptor details	sing			I	I			I	l			I					1					I			
General Titles Manufacture of substance or use as process Manufacture of substance or use as process Loss as intermediate (on usgloct to strictly controlled conditions)	Industrial (SU3, SU8, SU3)	rocarbons, CB-C11, n- ines, isoalkanes, cyclics, < aromatics YES	Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, < 2% aromatics YES	Hydrocatbors, C9-C11, isoalkanes, cyclics, < 2% aromatics YES	Hydrocarbons, C10-C13, n- akanes, isoalkanes, cyclics, < 2% aromatics YES	Hydrocarbons, C10-C13, isbalkanes, cyclics, <2% aromatics YES	Hydrocarbons, C10-C13, n- alkanes, <2% aromatics YES	Hydrocarbons, C10-C14, n- akanes, < 2% aromatics YES	Hydrocarbons, C11-C14, n- akanes, isoalkanes, cyclics, < 2% aromatics YES	Hydrocarbons, C13-C15, n- alkanes, isoalkanes, cyclics, 2% aromatics YES	Hydrocarbors, C12-C15, n- alkanes, iscalkanes, cyclics, < 2% aromatics	YES	drocarbons, C10-C12, salkanes, < 2% aromatics YES	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics YES	Hydrocarbons, C11-C13, iscalkanes, < 2% aromatics YES	Hydrocarbons, C11-C14, n- akanes, < 2% aromatics YES	Hydrocarbons, C9-C11, cyclics, < 2% aromatics De	YES	Undecane YES	Dodecane YES	Tridecane YES	Tetradecane YES	Isododecane YES	Hydrocarbons, C10-C13, Isoalkanes <2% aromatics	tydrocarbons, C10-C14, n- Ikanes, isoalkanes, <2% romatic 2% aromatics
Use as intermediate (not subject to strictly controlled conflictions) 1A Distribution of substance	Industrial (5U3, 5U8) 5U2) Industrial (5U3, 5U8, 5U2) Professional (5U22) Consumer (5U21)	YES n/a	YES	YES	YES	YES	YES		YES	YES		YES	YES	YES	YES	YES		YES	YES	YES	YES				
2 Formulation & (re)packing of substances and mixtures	Industrial (SU10)	n/a YES	YES	YES	YES	YES	YES		YES	YES		YES	YES	YES	YES			YES	YES	YES	YES	YES			
Identified Solvent Titles (ESVOC)	Professional (SU22) Consumer (SU21)	n/a n/a																							
3 Uses in Costings	Industrial (SU3) Professional (SU22) Consumer (SU21)	YES YES	YES YES	YES YES	YES YES	YES YES	YES		YES YES	YES YES		YES YES	YES YES	YES YES	YES YES				YES YES	YES YES					YES YES
		YES	YES	YES	YES	YES			YES	YES		YES	YES	YES	YES										YES
Use in Clearing Agents Use in Cli field drilling and production operation	Professional (SU22)	YES YES YES	YES YES YES	YES YES YES YES	YES YES YES YES	YES YES YES	YES YES YES YES		YES YES YES YES YES	YES YES YES YES YES		YES YES YES	YES YES YES	YES YES YES	YES YES YES	YES		YES YES YES				YES YES YES			
6 Lubricents 7 Metal working fluids / rolling oils	Consumer (SU21) Industrial (SU3) Professional (SU22) Consumer (SU21) Industrial (SU3) Professional (SU22)	n/a YES YES YES YES YES	YES YES YES YES		YES YES YES YES YES	YES YES YES YES	YES YES YES YES YES	YES YES YES YES YES	YES YES YES YES YES	YES YES YES YES YES		YES YES YES YES	YES YES YES YES YES	YES YES YES YES YES	YES YES YES YES	YES YES YES YES YES		YES YES YES	YES	YES	YES	YES YES			YES YES YES
9 Eliowing agents	Professional (SU22) Consumer (SU21) Industrial (SU3)	YES n/a	YES		YES	YES	YES	YES	YES	YES		YES	YES	YES	YES	YES						YES			
10 Use as binders and release agents	Professional (SU22) Consumer (SU21) Industrial (SU3)	n/a n/a YES	YES	YES	YES	VES	YES		VES	YES		VES													YES
11 Agrochemical uses	Professional (5U22) Consumer (SU21) Industrial (SU3)	YES n/a n/a	YES	120	YES	YES YES	YES		YES YES	YES		YES YES	YES	YES											YES
12 Uke as a fuel	Professional (5U22) Comuner (5U21) Industrial (5U2) Professional (5U22) Consumer (5U21) Industrial (5U3) Professional (5U22) Consumer (5U21)	YES YES YES YES YES YES	YES YES YES YES YES YES		YES YES YES YES YES YES	YES YES	YES YES YES YES YES	YES	YES YES YES YES YES YES YES	YES YES YES YES YES YES		YES YES	YES YES YES YES YES YES YES YES YES	YES YES YES YES YES YES YES YES	YES YES YES YES	YES		YES				YES			YES
14 De-Icing and anti-Icing applications	Industrial (SU3) Professional (SU22) Consumer (SU21)	n/a			YES				¥ES	¥E8															
15 Raad and construction applications	Industrial (SU3) Professional (SU22) Consumer (SU21)	n/a YES n/a	YES		YES			YES	YES	YES															
16 Other Consumer Uses 17 Use in luboratories	Consumer (SU21) Industrial (SU3) Professional (SU22) Consumer (SU21)	YES YES YES n/a	YES YES	YES YES YES	YES YES YES	YES YES	YES YES YES		YES YES YES	YES YES YES			YES YES YES	YES YES YES	YES YES			YES YES YES	YES YES YES	YES YES YES	YES YES YES	YES YES YES	YES		
CONCAINE Titles (additional to ESVOC) 18 Explosives manufacture & use	Industrial (SU3) Professional (SU22)	n/a			YES				YES	YES		YES		YES											
21 Rubber production and processing	Consumer (SU21) Industrial (SU3, SU10) Professional (SU22) Consumer (SU21)	n/a n/a n/a								YES			YES	YES	YES										
Other Tentative Titles (ATIEL, polymers, etc.) 23 Polymer processing	Industrial (SU10) Professional (SU22) Consumer (SU21)	n/a			YES YES		YES		YES	YES YES		YES	YES	YES YES	YES YES	YES YES		YES							
Other Pearsbie Titles 21 Water Insulment chemicals	Industrial (5U3) Professional (5U22) Consumer (5U21)	YES YES YES			YES YES				YES YES	YES YES		YES YES	YES YES YES	YES YES	YES YES				YES						
22 Mining chemicals	Industrial (\$U3) Professional (\$U22) Consumer (\$U21)	n/a n/a			YES				YES	YES															

ence Mapping worksheet for Use Descriptor details.		USES COVERED	-														
		Hydrocarbons, C13-C18, n- alkanes, isoalkanes, cyclics, < 2% aromatics	Hydrocarbons, C14-C18, n alkanes, isoalkanes, cyclics < 2% aromatics	 Hydrocarbons, C16-C20, n- alkanes, isoalkanes, cyclics, < 2% aromatics 	Hydrocarbons, C16-C20, n- alkanes, isoalkanes, < 2% aromatics aron	rocarbons, C13-C16, Ikanes, cyclics, < 2% natics	Hydrocarbons, C14-C19, isoalkanes, cyclics, < 2% aromatics	Hydrocarbons, C14-C17, n- alkanes, < 2% aromatics	Hydrocarbons, C14-C20, n- alkanes, < 2% aromatics	Pentadecane	Hexadecane (includes Isohexadecane)	Heptadecane	Octadecane	Nonadecane	Icosane (includes Isoeicosane)	Hydrocarbons, C14-C20, n- alkanes, isoalkanes, <2% aromatics	Hexadecane
Manufacture of substance or use as process chemical or extraction agent Use as intermediate (not subject to strictly controlled conditions)	Industrial (SU3, SU8, SU9) Industrial (SU3, SU8, SU9)	YES	YES	YES		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Distribution of substance	Industrial (SU3, SU8, SU9) Professional (SU22)	YES	YES	YES		YES	YES										YES
	Consumer (SU21)	n/a n/a															
Formulation & (re)packing of substances and mixtures	Industrial (SU10) Professional (SU22)	YES n/a	YES	YES		YES	YES	YES		YES	YES	YES	YES	YES	YES	YES	YES
fied Solvent Titles (ESVOC)	Consumer (SU21)	n/a															
Uses in Coatings	Industrial (SU3)	YES	YES	YES		YES		YES								YES	
	Professional (SU22) Consumer (SU21)	YES YES	YES YES	YES YES		YES YES										YES	
Use in Cleaning Agents	Industrial (SU3) Professional (SU22)	YES	YES			YES										YES	
	Consumer (SU21)	YES YES	YES YES			YES YES											
Use in Oil field drilling and production operations	Industrial (SU3) Professional (SU22)	YES	YES			YES		YES	YES								
	Consumer (SU21)	n/a	YES														
Lubricants	Industrial (SU3) Professional (SU22)	YES YES	YES YES	YES YES		YES YES		YES					YES				
Metal working fluids / rolling oils	Consumer (SU21) Industrial (SU3)	YES	YES			YES	YES										
mean working made ricking one	Professional (SU22)	YES YES	YES YES	YES YES		YES YES	YES	YES	YES YES								
Blowing agents	Consumer (SU21) Industrial (SU3)	n/a															
	Professional (SU22)	n/a						YES									
Use as binders and release agents	Consumer (SU21) Industrial (SU3)	n/a	VEO	VEO		VEO	VEO									VEO	
	Professional (SU22)	YES YES	YES YES	YES YES		YES	YES									YES YES	
Agrochemical uses	Consumer (SU21)	n/a															
	Professional (SU22)	n/a YES		YES				YES									
Use as a fuel	Consumer (SU21) Industrial (SU3)		¥50	YES								¥50					
	Professional (SU22)	YES YES	YES YES	YES YES		YES YES		YES		YES		YES					YES
Functional Fluids	Consumer (SU21)	YES	YES	YES		YES											
	Professional (SU22)	YES YES	YES YES	YES YES				YES	YES		YES		YES		YES		
De-icing and anti-icing applications	Consumer (SU21) Industrial (SU3)	YES							YES		YES		YES				
	Professional (SU22)	n/a															
Road and construction applications	Consumer (SU21) Industrial (SU3)	n/a															
	Professional (SU22)	YES	YES			YES											
Other Consumer Uses	Consumer (SU21) Consumer (SU21)	n/a YES		YES				YES			YES				YES		
Use in laboratories	Industrial (SU3) Professional (SU22)	YES	YES	YES		YES		0		YES	YES	YES	YES	YES	YES	YES	YES
	Consumer (SU21)	YES n/a	YES	YES		YES				YES	YES	YES	YES	YES	YES	YES	YES
WE Titles (additional to ESVOC) Explosives manufacture & use	Industrial (SU3)	n/a															
	Professional (SU22)	YES	YES	YES													
Rubber production and processing	Consumer (SU21) Industrial (SU3, SU10)	n/a YES															
	Professional (SU22) Consumer (SU21)	n/a															
ntative Titles (ATIEL, polymers, etc.)	Consumer (SU21)	n/a															
Polymer processing	Industrial (SU10) Professional (SU22)	YES	YES	YES				#VALUE!								YES	
	Consumer (SU21)	YES n/a	YES	YES												YES	
Water treatment chemicals	Industrial (SU3)			VES		VER											
	Professional (SU22)	YES YES		YES YES		YES YES											
Mining chemicals	Consumer (SU21) Industrial (SU3)	YES	YES														
	Professional (SU22)	n/a	TES														
	Consumer (SU21)	n/a															