

ExxonMobil Supported Uses - Generic Use Mapping for Bitumen

Date Issued: November 2009



Generic Use Title	USE Description	Sector of Use (SU)	Process Category (PROC) Chemical Product Category (PC)	Environmental Release Category (ERC)
Manufacture of substance - manufacture and use as chemical feedstock	Manufacture of bitumen or use as an intermediate or process chemical or extraction agent. Includes recycling / recovery, material transfers, storage, maintenance and loading. <i>This use does not include manufacture of bitumen preparations/mixtures - See Formulation section, e.g. polymer modified bitumens, bitumen emulsions, etc.</i>	Industrial SU 3,8	PROC 1,2,3,4,8a,8b,15 PC (N/A)	ERC 1
		Professional	Not applicable	
		Consumer	Not applicable	
Distribution of substance - distribution in bulk via depots	Loading of bitumen and repacking (including drums and small packs), including distribution (including marine vessel/barge, rail/road car and IBC loading).	Industrial SU 8	PROC 1,2,3,4,8a,8b,9 PC (N/A)	ERC (N/A)
		Professional	Not applicable	
		Consumer	Not applicable	
Formulation & packaging of preparations and mixtures - use of bitumen to produce liquid formulations	Formulation, packing and re-packing of bitumen and its preparations/mixtures in batch or continuous operations, including storage, materials transfers, large and small scale packing, and maintenance. e.g. polymer modified bitumens, cutbacks, emulsions, paints, etc.	Industrial SU 10	PROC 1,2,3,4,5,8a,8b,9,14,15 PC (N/A)	ERC 2
		Professional	Not applicable	
		Consumer	Not applicable	
Uses in Coatings - use of bitumen formulations as coatings sealants, putties, etc	Use of bitumen in coatings 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 & film formation) and equipment cleaning & maintenance. E.g. paints, inks, adhesives, emulsions	Industrial SU 3	PROC 1,2,3,4,5,7,8a,8b,10,11,13,15 PC (N/A)	ERC 4a
		Professional SU 22	PROC 1,2,3,4,5,7,8a,8b,10,11,13,15 PC (N/A)	ERC 8a,8d
		Consumer SU 21	PROC (N/A) PC 1,9a,9b,18,23,24,31	ERC 8a,8d
Use in Oil field drilling and production operations - use of bitumen in formulated well drilling fluid	Oil field well drilling/production operations (including drilling muds and well cleaning) including material transfers, maintenance and disposal	Industrial SU 3	PROC 1,2,3,4,8b,9,10 PC (N/A)	ERC 8d
		Professional SU 22	PROC 1,2,3,4,8b,9,10 PC (N/A)	ERC 8d
		Consumer	Not applicable	
Lubricants - Use of bitumen in formulated lubricants	Use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, maintenance and disposal of waste oil. E.g. open gear lubricants	Industrial SU 3	PROC 1,2,3,4,7,8b,9,10,13,17,20 PC (N/A)	ERC 4,7
		Professional SU 22	PROC 1,2,3,4,7,8b,9,10,13,17,20 PC (N/A)	ERC 9a,9b
		Consumer	Not applicable	

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Use of bitumen for the production of asphalt, solid construction materials, car components, etc.	Bulk transfers and mixing of hot aggregate and bitumen for production of asphalt. Production of roofing, water-proofing membranes. Cutting and packing of finished roofing and similar materials. Also covers re-use and/or recycling operations. E.g. paving, roofing, mastic asphalt products and carpet tiles.	Industrial SU 3,19	PROC 1,2,3,4,7,8b,10,13,14,21 PC (N/A)	ERC 8f
		Professional SU 19,22	PROC 1,2,3,4,7,8b,10,13,14,21 PC (N/A)	ERC 8f
		Consumer	Not applicable	
Use of bitumen containing construction materials at elevated temperature (above 130°C), mechanical paving	Application of surface coatings and binders in road and construction activities , including material transfers and product disposal - Mechanical application. E.g. paving, roofing, mastic	Industrial	Not applicable	
		Professional SU 19,22	PROC 8b,10,23,24 PC (N/A)	ERC 8f
		Consumer	Not applicable	
Use of bitumen containing construction materials at elevated temperature, manual application using hand tools	Application of surface coatings and binders in road and construction activities , including material transfers and product disposal - Manual application. E.g. mastic asphalt, roofing	Industrial	Not applicable	
		Professional SU 19,22	PROC 8b,9,10,23,24 PC (N/A)	ERC 8f
		Consumer	Not applicable	
Rubber production and processing - use of bitumen for the production of tyres and rubber goods	Manufacture of rubber articles , including processing of raw rubber, handling and mixing of rubber additives, vulcanising, cooling and finishing.	Industrial SU 10,11	PROC 14 PC (N/A)	ERC 1
		Professional	Not applicable	
		Consumer	Not applicable	
Use of bitumen as a fuel	Covers the use of bitumen as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	Industrial SU 3	PROC 1,2,3,4,8a,8b,16 PC (N/A)	
		Professional	Not applicable	
		Consumer	Not applicable	

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