

Table 9.0-1: Short description of all Identified Uses with their use descriptors and life cycle stage for Sodium Cryolite (EINECS 237-410-6)

Number (IU)	Short description of Identified Use	Product Category (PC)	Life Cycle Stage(s) covered by the IU					Sector of use (SU)	Process Category (Proc)	Article Category (AC)	Environmental Release Category (ERC)	
			Manufacture	Formulation	End Use							Service Life (for article)
					Industrial	Professional	Consumer					
<b>Manufacturing</b>												
M1	Synthetic Cryolite production.	1)	X					SU3	PROC2, PROC3	1)	ERC1	
M2	Packaging of finished product	1)	X					SU3	PROC9	1)	ERC1	
M3	Handling of Cryolite reaction product	1)	X					SU3	PROC8b	1)	ERC1	
<b>Production and Uses in Aluminium industry</b>												
M4	Outside production cell: Charge/discharge/ crushing and transportation of Cryolite	1)	X					SU3	PROC26 [PROC5 <sup>3</sup> ]	1)	ERC4	
M5	Outside production cell: Charge/discharge/ crushing and transportation of Cryolite	1)	X					SU3	PROC8a	1)	ERC4	
M6	Inside production cell: Manufacture of Cryolite Cryolite as "medium" for aluminium production	1)	X					SU3	PROC22	1)	ERC4	
<b>Formulation / Mixing</b>												
IU1	Unloading and storing of cryolite at the DU site	1)		X				SU3	PROC8a	1)	ERC2	
IU2	Unloading and storing of cryolite at the DU site	1)		X				SU3	PROC8b	1)	ERC2	
IU3	Formulating/preparing preparations containing cryolite for downstream processes aimed at: - production of abrasive appliances; - Production of welding rods - Production of brake pads - Production of glassware - Manufacture of sanding paper. - Production of fireworks ingredients - Production of fluxes	1)		X				SU3	PROC5	1)	ERC2	
IU4	Transferring preparations containing cryolite into packaging forms suitable for downstream processing.	1)		X				SU3	PROC9	1)	ERC2	
<b>Production of articles</b>												
IU5	Unloading of preparations containing cryolite at the DU site	1)			X			SU3	PROC 8a	1)	ERC5	
IU6	Production of welding rods. Spraying for surface coating	1)			X			SU3	PROC7	1)	ERC5	
IU7	Production of welding rods. Immersion operations	1)			X			SU3	PROC13	1)	ERC5	
IU8	Production of welding rods. Low energy spreading	1)			X			SU3	PROC10	1)	ERC5	
IU9	Production of welding rods. Preparation of electrode tip	1)			X			SU3	PROC 21	1)	ERC5	

- 1) In this life cycle step the product/article category is not yet relevant.  
2) This industrial use will be described and it will be motivated that exposure is likely to be non-significant.  
3) PROC26 does not have a corresponding TRA entry. For the exposure scenario it will be replaced by PROC5.

## CHEMICAL SAFETY REPORT

Number (IU)	Short description of Identified Use	Product Category (PC)	Life Cycle Stage(s) covered by the IU					Sector of use (SU)	Process Category (Proc)	Article Category (AC)	Environmental Release Category (ERC)	
			Manufacture	Formulation	End Use							Service Life (for article)
					Industrial	Professional	Consumer					
IU10	Production of - Abrasive appliances (e.g. grinding wheels, cutting disks). - brake pads - fire works	1)			X			SU3	PROC14	1)	ERC5	
IU11	Production of - sanding paper	1)			X			SU3	PROC10	1)	ERC5	
IU12	Mixing in ceramic frits, pigments, glazes and tiles production	1)			X			SU3	PROC 3	1)	ERC 5	
IU13	Mixing in ceramic frits, pigments, glazes and tiles production				X			SU3	PROC 5	1)	ERC 5	
IU14	Production of ceramic frits, pigments, glazes and tiles	1)			X			SU3	PROC 6	1)	ERC 5	
IU15	Unloading of preparations containing cryolite at the DU site	1)			X			SU3	PROC 8a	1)	ERC 5	
IU16	ceramic frits, pigments, glazes and tiles production in ovens	1)			X			SU3	PROC22	1)	ERC 5	
IU17	Production of glassware (as opalizing agents)	1)			X			SU3	PROC22	1)	ERC5	
<b>End-uses of articles in industry</b>												
IU18	Use of cutting and grinding applications, e.g. the use of grinding wheels, cutting disks.	1)			X		X	SU3	PROC24	AC2	ERC12b	
IU19	Welding, outdoor, open processing	1)			X		X	SU3	PROC25	TARIC 8311000000	ERC10b	
IU20	Welding, indoor, open processing	1)			X		X	SU3	PROC25	TARIC 8311000000	ERC11b	
IU21	Welding, outdoor, closed processing	1)			X		X	SU3	PROC2	TARIC 8311000000	ERC10b	
IU22	Welding, indoor, closed processing	1)			X		X	SU3	PROC2	TARIC 8311000000	ERC11b	
IU23	Installation and replacement of brake pads <sup>2</sup>	1)			X		X	SU3	PROC21	TARIC 6813810000	ERC11a	
IU24	Sanding of metal surfaces	1)			X		X	SU3	PROC24	TARIC 6805000000	ERC12a	
<b>Other uses as flux</b>												
IU25	Flux in metal industry for soldering, brazing and welding.	PC38, UCN F20000		X	X			SU3, SU14	PROC22	1)	ERC4	
IU26	Casting production	PC38, UCN F20000			X			SU3, SU14, NACE C24.5	PROC23	1)	ERC4	
<b>End-uses by professionals</b>												
IU27	Use of cutting and grinding applications, e.g. the use of grinding wheels, cutting disks., outdoor	1)			X		X	SU22	PROC24	AC2	ERC10b	
IU28	Use of cutting and grinding applications, e.g. the use of grinding wheels, cutting disks, indoor	1)			X		X	SU22	PROC24	AC2	ERC11b	
IU29	Welding, outdoor, open processing	1)			X		X	SU22	PROC25	TARIC 8311000000	ERC10b	
IU30	Welding, indoor, open processing	1)			X		X	SU22	PROC25	TARIC 8311000000	ERC11b	
IU31	Installation and replacement of brake pads	1)			X		X	SU22	PROC21	TARIC 6813810000	ERC10a	
IU32	Sanding of metal surfaces, outdoor	1)			X		X	SU22	PROC24	TARIC 6805000000	ERC10b	

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					Industrial	Professional	Consumer					
IU33	Sanding of metal surfaces, indoor	1)			X		X	SU22	PROC24	TARIC 6805000000	ERC11b	
IU34	Firing of fireworks				X			SU22	PROC23	1)	ERC8e	
IU35	Laboratory use	PC21			X			SU22	PROC15	1)	ERC8a	
IU36	Use of ceramic frits, pigments, glazes and tiles				X		X	SU 22	PROC21	AC4	ERC11a	
<b>End-uses by consumers</b>												
IU37	Use in cutting and grinding applications, e.g. the use of grinding wheels, cutting disks.	1)					X	X	SU21	AC2	ERC10b	
IU38	Welding, outdoor, open processing	PC38					X	X	SU21	TARIC 8311000000	ERC10b	
IU39	Welding, indoor, open processing	PC38					X	X	SU21	TARIC 8311000000	ERC11b	
IU40	Use of brake pads (in vehicles)	1)					X		SU21	TARIC 6813810000	ERC10b	
IU41	Sanding of metal surfaces, outdoor	1)					X	X	SU21	TARIC 6805000000	ERC10b	
IU42	Sanding of metal surfaces, indoor	1)					X	X	SU21	TARIC 6805000000	ERC11b	
IU43	Firing of fireworks	PC11					X		SU21	TARIC 3604100000	ERC8e	
IU44	Use of ceramic frits, pigments, glazes and tiles						X	SU 21		AC4	ERC11a	