

Identified Industrial Generic Exposure Scenarios (GESs) of Acetone

GES No.	Subsector	Main SU	Description	PROC	ERC	Acetone
EC No.						200-662-2
CAS No.						67-64-1
1	Manufacture, Processing and Distribution of substances and mixtures	All Industrial Uses (SU3)	Manufacture, Processing (see examples below ¹), Formulation and Distribution of the substance or mixtures. 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, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15	ERC1, ERC2, ERC4, ERC6a ERCs are to be checked with the ECT tool	x
2	Use in laboratories	All Industrial Uses (SU3)	Use of the substance within laboratory settings, including material transfers and equipment cleaning	PROC10, PROC15	ERC4 ERCs are to be checked with the ECT tool	x + PROC19
3	Uses in Coatings	All Industrial Uses (SU3)	Covers the use in coatings (paints, inks, adhesives, and production of textiles, 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.	PROC5, PROC8a, PROC10, PROC13	ERC4 ERCs are to be checked with the ECT tool	x + PROC1, PROC2, PROC3, PROC4, PROC7, PROC8b, PROC9, PROC15, PROC19
4	Use as binders and release agents	All Industrial Uses (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, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13	ERC5 ERCs are to be checked with the ECT tool	x
5	Rubber production and processing	All Industrial Uses (SU3)	Manufacture of tyres and general rubber articles, including processing of raw (uncured) rubber, handling and mixing of rubber additives, vulcanising, cooling and finishing.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14	ERC6d ERCs are to be checked with the ECT tool	x

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EC No.						200-662-2
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6	Polymer manufacturing	All Industrial Uses (SU3)	Manufacturing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC6d ERCs are to be checked with the ECT tool	x
7	Polymer processing	All Industrial Uses (SU3)	Processing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15	ERC6d ERCs are to be checked with the ECT tool	x
9	Use in Cleaning Agents	All Industrial Uses (SU3)	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, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC19	ERC4 ERCs are to be checked with the ECT tool	x
10	Use in Oil field drilling and production operations	All Industrial Uses (SU3)	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers.	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC 4 ERCs are to be checked with the ECT tool	x
11	Blowing agents	All Industrial Uses (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, (ERC10a) ERCs are to be checked with the ECT tool	x
12	Mining chemicals	All Industrial Uses (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, PROC8b, PROC9	ERC8d ERCs are to be checked with the ECT tool	x

¹ Examples for processing: use as intermediate,
use as monomer etc.
use as solvent,
use for the manufacturing of resins

² Polymer Examples: FRP, UV, VE

Please note also: PC's and AC's are only for consumer.
For checking ERC's please use the respective environmental calculation tool (ECT) ECT Acetone or ECT Phenol or ECT Cumene or ECT AMS or ECT ACP

Identified Industrial PROCs

PROC No.	Acetone
EC No.	200-662-2
CAS No.	67-64-1
PROC1	x
PROC2	x
PROC3	x
PROC4	x
PROC5	x
PROC6	x
PROC7	x
PROC8a	x
PROC8b	x
PROC9	x
PROC10 (2 uses)	x
PROC12	x
PROC13	x
PROC14	x
PROC15	x
PROC19	x
Sum	16

Generic Exposure Scenario:			
Substance specific information		Reference Values	
Substance		DNEL worker - inhalation (long term)	500 ppm
CASnr	67-64-1	DNEL worker - inhalation (short term)	ppm
Substance volatility:	233 hPa	DNEL worker - dermal (long term)	186 mg/kg/day
TRA volatility range	high		
physical property	liquid		
Section 1		Exposure Scenario Title	
Exposure Scenario		Main sector of Use: SU3 = All Industrial Uses	
Processes, tasks, activities covered	All Industrial Processes relevant for Acetone and Acetone containing products.		
Life Cycle Stage / Sector of Use	SU3 = All Industrial Uses		
Applicable Use Descriptors (PROC or PC)	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC12, PROC13, PROC14, PROC15, PROC19		
Applicable Use Descriptors	ERCs and local conditions are to be checked with the Excel tool ECT Acetone		
Default Operational Conditions			
Product characteristics			
Acute Hazard	R phrases: 11-Highly flammable, 36-Irritating to eyes, 66-Repeated exposure may cause skin dryness or cracking, 67-Vapours may cause drowsiness and dizziness		
General measures	<p>Locate bulk storage outdoors [E2] Use suitable eye protection [PPE26] If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes [PPE20] Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. [E1]</p>		
concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently) [G13].		
physical form of product	Liquid, vapour pressure > 10 kPa [OC5].		
frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently) [G2]		
other Operational Conditions of use	Assumes a good basic standard of occupational hygiene is implemented [G1]. ;		

Section 2	Operational conditions and risk management measures
Section 2.1	Control of environmental exposure
Product characteristics	substance is a unique structure, ketone, readily biodegradable
Amounts used	Annual site tonnage (tonnes/year): please use the Excel-Tool 'ECT Acetone' to calculate your maxium tonnage/year
Frequency and duration of use	Emission Days (days/year): 360d/y
Other Operational Conditions of use affecting environmental exposure	Indoor/Outdoor use
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Common practices vary across sites thus conservative process release estimates used. Typical technical measures are closed systems or scrubbers or charcoal adsorbers. Typical onsite offgas treatment technology provides removal efficiency of 90 %
Organisation measures to prevent/limit release from site	Common practices vary across sites thus conservative process release estimates used. Please use the Excel-Tool 'ECT Acetone' to check your local conditions.
Conditions and measures related to municipal sewage treatment plant	Please use the Excel-Tool 'ECT Acetone' to check your local conditions.
Conditions and measures related to external treatment of waste for disposal	External treatment and disposal of waste should comply with applicable regulations
Conditions and measures related to external recovery of waste	External treatment and disposal of waste should comply with applicable regulations
Other environmental control measures additional to above	none
Section 2.2	Control of worker exposure
	see chapter RMMs
Section 3	Exposure Estimation
3.1. Health	GES Worker Chemical Safety Assessment (CSA) Template
	http://cefic.org/templates/shwPublications.asp?HID=750
3.2. Environment	ECT Acetone
	http://www.reachcentrum.eu/EN/consortium-management/consortia-under-reach/phenol-derivatives-reach-consortium.aspx
Section 4	Guidance to check compliance with the Exposure Scenario
4.1. Health	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
4.2. Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Risk Management Measures (RMMs)
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	advised under REACH
1	PROC 1 - Use in closed process, no likelihood of exposure	Industrial - SU3	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a closed system [E47].
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Industrial - SU3	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a closed system [E47].
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Industrial - SU3	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a closed system [E47].
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Industrial - SU3	Process sampling [CS2]. ; (open systems) [CS108]		
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Industrial - SU3	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	
6	PROC 6 -Calendering operations	Industrial - SU3	Calendering (including Banburys) [CS64]		
7	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].	with local exhaust ventilation [CS109]	Ensure material transfers are under containment or extract ventilation [E66].
8	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		Ensure operation is undertaken outdoors [E69].
9	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		Wear a respirator conforming to EN140 with Type A filter or better. [PPE22]
10	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	
11	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Risk Management Measures (RMMs)
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	advised under REACH
12	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Industrial - SU3	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	
13	PROC 10 - Roller application or brushing	Industrial - SU3	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	
14	PROC 10 - Roller application or brushing	Industrial - SU3	Equipment cleaning and maintenance [CS39].		
15	PROC 12 - Use of blow agents for foam production	Industrial - SU3	Foaming [CS132].	Production of foam-based objects [CS125].	
16	PROC 13 -Treatment of articles by dipping and pouring	Industrial - SU3	Dipping, immersion and pouring [CS4].		
17	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Industrial - SU3	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]		
18	PROC 15 - Use of laboratory reagents in small scale laboratories	Industrial - SU3	Laboratory activities [CS36].		
19	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Industrial - SU3	Hand application - fingerpaints, pastels, adhesives [CS72]		Wear suitable gloves tested to EN374 [PPE15].

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Inhalation Exposure								
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Exposure - (ppm) - no modifiers	TRA LEV : efficiency (%)	Dilution ventilation effectiveness (%)	TRA concentration factor	TRA duration factor	TRA RPE factor	Extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (inhalation)	Predicted Exposure - (ppm) - modified
1	PROC 1 - Use in closed process, no likelihood of exposure	Industrial - SU3	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	0.01								0.01
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Industrial - SU3	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	50.00								50
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Industrial - SU3	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	100.00								100
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Industrial - SU3	Process sampling [CS2]. ; (open systems) [CS108]		100.00								100
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Industrial - SU3	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	250.00								250
6	PROC 6 -Calendering operations	Industrial - SU3	Calendering (including Banburys) [CS64]		250.00								250
7	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].	with local exhaust ventilation [CS109]	500.00	95.00							25
8	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		500.00		30.00						350
9	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		500.00					half mask			50
10	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	250.00								250
11	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	150.00								150
12	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Industrial - SU3	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	200.00								200
13	PROC 10 - Roller application or brushing	Industrial - SU3	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	250.00								250

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Inhalation Exposure								
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Exposure - (ppm) - no modifiers	TRA LEV : efficiency (%)	Dilution ventilation effectiveness (%)	TRA concentration factor	TRA duration factor	TRA RPE factor	Extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (inhalation)	Predicted Exposure - (ppm) - modified
14	PROC 10 - Roller application or brushing	Industrial - SU3	Equipment cleaning and maintenance [CS39].		250.00								250
15	PROC 12 - Use of blow agents for foam production	Industrial - SU3	Foaming [CS132].	Production of foam-based objects [CS125].	100.00								100
16	PROC 13 -Treatment of articles by dipping and pouring	Industrial - SU3	Dipping, immersion and pouring [CS4].		250.00								250
17	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Industrial - SU3	Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100]		50.00								50
18	PROC 15 - Use of laboratory reagents in small scale laboratories	Industrial - SU3	Laboratory activities [CS36].		50.00								50
19	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Industrial - SU3	Hand application - fingerpaints, pastels, adhesives [CS72]		250.00								250

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Dermal Exposure						
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Dermal exposure (mg/kg/d) - no modifiers	TRA Dermal exposure LEV reduction factor	TRA concentration factor	PPE factor	extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (dermal)	Predicted Dermal Exposure (mg/kg/d) - modified
1	PROC 1 - Use in closed process, no likelihood of exposure	Industrial - SU3	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	0.34						0.34
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Industrial - SU3	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	1.37						1.37
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Industrial - SU3	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	0.34						0.34
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure	Industrial - SU3	Process sampling [CS2]. ; (open systems) [CS108]		6.86						6.86
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Industrial - SU3	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	13.71						13.71
6	PROC 6 -Calendering operations	Industrial - SU3	Calendering (including Banburys) [CS64]		27.43						27.43
7	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].	with local exhaust ventilation [CS109]	42.86	0.05					2.14
8	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		42.86						42.86
9	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		42.86						42.86
10	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	13.71						13.71
11	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	6.86						6.86
12	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Industrial - SU3	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	6.86						6.86

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Dermal Exposure						
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Dermal exposure (mg/kg/d) - no modifiers	TRA Dermal exposure LEV reduction factor	TRA concentration factor	PPE factor	extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (dermal)	Predicted Dermal Exposure (mg/kg/d) - modified
13	PROC 10 - Roller application or brushing	Industrial - SU3	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	27.43						27.43
14	PROC 10 - Roller application or brushing	Industrial - SU3	Equipment cleaning and maintenance [CS39].		27.43						27.43
15	PROC 12 - Use of blow agents for foam production	Industrial - SU3	Foaming [CS132].	Production of foam-based objects [CS125].	0.34						0.34
16	PROC 13 -Treatment of articles by dipping and pouring	Industrial - SU3	Dipping, immersion and pouring [CS4].		13.71						13.71
17	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Industrial - SU3	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]		0.34						0.34
18	PROC 15 - Use of laboratory reagents in small scale laboratories	Industrial - SU3	Laboratory activities [CS36].		0.34						0.34
19	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Industrial - SU3	Hand application - fingerpaints, pastels, adhesives [CS72]		141.43			gloves			28.29

Generic Exposure Scenario: Industrial Processes relevant for Acetone and Acetone containing products					Risk Characterization		
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	RCR (inhalation)	RCR (dermal)	RCR (all routes)
1	PROC 1 - Use in closed process, no likelihood of exposure	Industrial - SU3	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	0.00002	0.002	0.002
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Industrial - SU3	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	0.10	0.01	0.11
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Industrial - SU3	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	0.20	0.002	0.20
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Industrial - SU3	Process sampling [CS2]. ; (open systems) [CS108]		0.20	0.04	0.24
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Industrial - SU3	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	0.50	0.07	0.57
6	PROC 6 -Calendering operations	Industrial - SU3	Calendering (including Banburys) [CS64]		0.50	0.15	0.65
7	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].	with local exhaust ventilation [CS109]	0.05	0.01	0.06
8	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		0.70	0.23	0.93
9	PROC 7 -Industrial spraying	Industrial - SU3	Spraying/fogging by machine application [CS25].		0.10	0.23	0.33
10	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	0.50	0.07	0.57
11	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Industrial - SU3	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	0.30	0.037	0.34

Generic Exposure Scenario: <u>Industrial Processes relevant for Acetone and Acetone containing products</u>					Risk Characterization		
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	RCR (inhalation)	RCR (dermal)	RCR (all routes)
12	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Industrial - SU3	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	0.40	0.04	0.44
13	PROC 10 - Roller application or brushing	Industrial - SU3	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	0.50	0.15	0.65
14	PROC 10 - Roller application or brushing	Industrial - SU3	Equipment cleaning and maintenance [CS39].		0.50	0.15	0.65
15	PROC 12 - Use of blow agents for foam production	Industrial - SU3	Foaming [CS132].	Production of foam-based objects [CS125].	0.20	0.00	0.20
16	PROC 13 -Treatment of articles by dipping and pouring	Industrial - SU3	Dipping, immersion and pouring [CS4].		0.50	0.074	0.57
17	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Industrial - SU3	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]		0.10	0.00	0.10
18	PROC 15 - Use of laboratory reagents in small scale laboratories	Industrial - SU3	Laboratory activities [CS36].		0.10	0.00	0.10
19	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Industrial - SU3	Hand application - fingerpaints, pastels, adhesives [CS72]		0.50	0.15	0.65

Identified Professional Generic Exposure Scenarios (GESs) of Acetone

GES No.	Subsector	Main SU	Description	PROC	ERC	Acetone
EC No.						200-662-2
CAS No.						67-64-1
1	Use in laboratories	All Professional Uses (SU22)	Use of small quantities within laboratory settings, including material transfers and equipment cleaning	PROC10, PROC15	ERC8a ERCs are to be checked with the ECT tool	x + PROC19
2	Uses in Coatings	All Professional Uses (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 equipment cleaning, maintenance and associated laboratory activities.	PROC5, PROC8a, PROC10, PROC13	ERC8a, ERC8c, ERC8d, ERC8f ERCs are to be checked with the ECT tool	x + PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC11, PROC15, PROC19
3	Use as binders and release agents	All Professional Uses (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, PROC5, PROC6, PROC 8a, PROC8b, PROC9, PROC10, PROC11	ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f ERCs are to be checked with the ECT tool	x
4	Polymer manufacturing	All Professional Uses (SU22)	Manufacturing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.	PROC8a	ERC8a, ERC8d, ERC8c, ERC8f ERCs are to be checked with the ECT tool	x + PROC1 PROC2 PROC8b PROC9 PROC14
5	Polymer processing	All Professional Uses (SU22)	Processing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.	PROC8a	ERC8a, ERC8d, ERC8c, ERC8f ERCs are to be checked with the ECT tool	x + PROC1 PROC2 PROC8b PROC9 PROC14
7	Use in Cleaning Agents	All Professional Uses (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, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19	ERC8a ERCs are to be checked with the ECT tool	x + ERC8d

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EC No.						200-662-2
CAS No.						67-64-1
8	Use in Oil field drilling and production operations	All Professional Uses (SU22)	Covers the use as a component of cleaning products including pouring/unloading from drums or containers	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b	ERC8d ERCs are to be checked with the ECT tool	x
9	Agrochemical uses	All Professional Uses (SU22)	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, PROC13, PROC19	ERC8a, ERC8d ERCs are to be checked with the ECT tool	x
10	De-icing and anti-icing applications	All Professional Uses (SU22)	Ice prevention and de-icing of vehicles, aircraft and other equipment by spraying	PROC1, PROC2, PROC8b, PROC11, PROC19	ERC8d ERCs are to be checked with the ECT tool	x
11	Explosives manufacture & use	All Professional Uses (SU22)	Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning	PROC1, PROC3, PROC5, PROC8a, PROC8b	ERC8d ERCs are to be checked with the ECT tool	x

² Polymer Examples: FRP, UV, VE

Please note also: PC's and AC's are only for consumer.
For checking ERC's please use the respective environmental calculation tool (ECT) ECT Acetone or ECT Phenol or ECT Cumene or ECT AMS or ECT ACP

Identified Professional PROCs

PROC No.	Acetone
EC No.	200-662-2
CAS No.	67-64-1
PROC1	x
PROC2	x
PROC3	x
PROC4	x
PROC5	x
PROC6	x
PROC8a	x
PROC8b	x
PROC9	x
PROC10 (2 uses)	x
PROC11	x
PROC13	x
PROC14	x
PROC15	x
PROC19	x
Sum	15

Generic Exposure Scenario:			
Substance specific information		Reference Values	
Substance		DNEL worker - inhalation (long term)	500 ppm
CASnr	67-64-1	DNEL worker - inhalation (short term)	ppm
Substance volatility:	233 hPa	DNEL worker - dermal (long term)	186 mg/kg/day
TRA volatility range	high		
physical property	liquid		
Section 1		Exposure Scenario Title	
Exposure Scenario		Main sector of Use: SU22 = All Professional Uses	
Processes, tasks, activities covered	All Professional Processes relevant for Acetone and Acetone containing products.		
Life Cycle Stage / Sector of Use	SU22 = All Professional Uses		
Applicable Use Descriptors (PROC or PC)	PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19		
Applicable Use Descriptors (ERC or SpERC)	ERCs and local conditions are to be checked with the Excel tool ECT Acetone		
Default Operational Conditions			
Product characteristics			
Acute Hazard	R phrases: 11-Highly flammable, 36-Irritating to eyes, 66-Repeated exposure may cause skin dryness or cracking, 67-Vapours may cause drowsiness and dizziness		
General measures	<p>Locate bulk storage outdoors [E2] Use suitable eye protection [PPE26] If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide employee skin care programmes [PPE20] Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. [E1]</p>		
concentration of substance in product	Covers percentage substance in the product up to 100 % (unless stated differently) [G13].		
physical form of product	Liquid, vapour pressure > 10 kPa [OC5].		
frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently) [G2]		
other Operational Conditions of use	Assumes a good basic standard of occupational hygiene is implemented [G1]. ;		

Section 2	Operational conditions and risk management measures
Section 2.1	Control of environmental exposure
Product characteristics	substance is a unique structure, ketone, readily biodegradable
Amounts used	Annual site tonnage (tonnes/year): please use the Excel-Tool 'ECT Acetone' to calculate your maxium tonnage/year
Frequency and duration of use	Emission Days (days/year): 360d/y
Other Operational Conditions of use affecting environmental exposure	Indoor/Outdoor use
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Common practices vary across sites thus conservative process release estimates used. Typical technical measures are closed systems or scrubbers or charcoal adsorbers. Typical onsite offgas treatment technology provides removal efficiency of 90 %
Organisation measures to prevent/limit release from site	Common practices vary across sites thus conservative process release estimates used. Please use the Excel-Tool 'ECT Acetone' to check your local conditions.
Conditions and measures related to municipal sewage treatment plant	Please use the Excel-Tool 'ECT Acetone' to check your local conditions.
Conditions and measures related to external treatment of waste for disposal	External treatment and disposal of waste should comply with applicable regulations
Conditions and measures related to external recovery of waste	External treatment and disposal of waste should comply with applicable regulations
Other environmental control measures additional to above	none
Section 2.2	Control of worker exposure
	see chapter RMMs
Section 3	Exposure Estimation
3.1. Health	GES Worker Chemical Safety Assessment (CSA) Template
	http://cefic.org/templates/shwPublications.asp?HID=750
3.2. Environment	ECT Acetone
	http://www.reachcentrum.eu/EN/consortium-management/consortia-under-reach/phenol-derivatives-reach-consortium.aspx
Section 4	Guidance to check compliance with the Exposure Scenario
4.1. Health	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
4.2. Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Risk Management Measures (RMMs)
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	advised under REACH
1	PROC 1 - Use in closed process, no likelihood of exposure	Professional - SU22	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a closed system [E47].
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Professional - SU22	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a closed system [E47].
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Professional - SU22	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	Sample via a closed loop or other system to avoid exposure [E8].; Handle substance within a closed system [E47].
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Professional - SU22	Process sampling [CS2]. ; (open systems) [CS108]		
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. ; Process sampling [CS2]. ; with local exhaust ventilation [CS109]	Ensure material transfers are under containment or extract ventilation [E66].
6	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	Ensure operation is undertaken outdoors [E69].
7	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	Avoid carrying out activities involving exposure for more than 4 hours [28].
8	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]; with local exhaust ventilation [CS109]		Ensure operation is undertaken outdoors [E69].
9	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		Ensure operation is undertaken outdoors [E69].
10	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		Avoid carrying out activities involving exposure for more than 4 hours [28].
11	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. ; with local exhaust ventilation [CS109]	Ensure material transfers are under containment or extract ventilation [E66].

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Risk Management Measures (RMMs)
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	advised under REACH
12	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	Ensure operation is undertaken outdoors [E69].
13	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	Avoid carrying out activities involving exposure for more than 4 hours [28].
14	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	
15	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Professional - SU22	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	
16	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39]. ; with local exhaust ventilation [CS109]	Ensure material transfers are under containment or extract ventilation [E66].
17	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	Limit the substance content in the product to 25% [OC18].
18	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	Avoid carrying out activities involving exposure for more than 4 hours [28].
19	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].	with local exhaust ventilation [CS109]	Ensure material transfers are under containment or extract ventilation [E66].
20	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		Limit the substance content in the product to 25% [OC18].Ensure operation is undertaken outdoors [E69]. Avoid carrying out activities involving exposure for more than 4 hours [28].
21	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		Avoid carrying out activities involving exposure for more than 1 hour [27].
22	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		Wear a respirator conforming to EN140 with Type A filter or better. [PPE22]

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products				Risk Management Measures (RMMs)		
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs		advised under REACH
23	PROC 13 -Treatment of articles by dipping and pouring	Professional - SU22	Dipping, immersion and pouring [CS4].			
24	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]	with local exhaust ventilation [CS109]		Ensure material transfers are under containment or extract ventilation [E66].
25	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]			Avoid carrying out activities involving exposure for more than 4 hours [28].
26	PROC 15 - Use of laboratory reagents in small scale laboratories	Professional - SU22	Laboratory activities [CS36].			
27	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]			Limit the substance content in the product to 25% [OC18].Wear suitable gloves tested to EN374 [PPE15].
28	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]			Avoid carrying out activities involving exposure for more than 1 hour [27].

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Inhalation Exposure								
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Exposure - (ppm) - no modifiers	TRA LEV : efficiency (%)	Dilution ventilation effectiveness (%)	TRA concentration factor	TRA duration factor	TRA RPE factor	Extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (inhalation)	Predicted Exposure - (ppm) - modified
1	PROC 1 - Use in closed process, no likelihood of exposure	Professional - SU22	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	0.01								0.01
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Professional - SU22	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	50.00								50
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Professional - SU22	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	100.00								100
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Professional - SU22	Process sampling [CS2]. ; (open systems) [CS108]		250.00								250
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. ; Process sampling [CS2]. ; with local exhaust ventilation [CS109]	500.00	80.00							100
6	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	500.00		30.00						350
7	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	500.00				1-4 hours				300
8	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]; with local exhaust ventilation [CS109]		600.00	80.00							420
9	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		600.00		30.00						420
10	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		600.00				1-4 hours				360
11	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. ; with local exhaust ventilation [CS109]	500.00	80.00							100
12	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	500.00		30.00						350
13	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	500.00				1-4 hours				300

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Inhalation Exposure								
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Exposure - (ppm) - no modifiers	TRA LEV : efficiency (%)	Dilution ventilation effectiveness (%)	TRA concentration factor	TRA duration factor	TRA RPE factor	Extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (inhalation)	Predicted Exposure - (ppm) - modified
14	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	250.00								250
15	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Professional - SU22	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	250.00								250
16	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39]. ; with local exhaust ventilation [CS109]	500.00	80.000							100
17	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	500.00			5-25%					300
18	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	500.00				1-4 hours				300
19	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].	with local exhaust ventilation [CS109]	1000.00	80.00							200
20	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		1000.00		30.00	5-25%	1-4 hours				252
21	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		1000.00				15 min-1 hour				200
22	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		1000.00					half mask			100
23	PROC 13 -Treatment of articles by dipping and pouring	Professional - SU22	Dipping, immersion and pouring [CS4].		250.00								250
24	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100]	with local exhaust ventilation [CS109]	500.00	80.00							100
25	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation of articles by tableting, compression, extrusion or pelletisation [CS100]		500.00				1-4 hours				300
26	PROC 15 - Use of laboratory reagents in small scale laboratories	Professional - SU22	Laboratory activities [CS36].		50.00								50

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Inhalation Exposure								
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Exposure - (ppm) - no modifiers	TRA LEV : efficiency (%)	Dilution ventilation effectiveness (%)	TRA concentration factor	TRA duration factor	TRA RPE factor	Extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (inhalation)	Predicted Exposure - (ppm) - modified
27	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]		500.00			5-25%					300
28	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]		500.00				15 min-1 hour				100

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Dermal Exposure						
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Dermal exposure (mg/kg/d) - no modifiers	TRA Dermal exposure LEV reduction factor	TRA concentration factor	PPE factor	extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (dermal)	Predicted Dermal Exposure (mg/kg/d) - modified
1	PROC 1 - Use in closed process, no likelihood of exposure	Professional - SU22	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	0.34						0.34
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Professional - SU22	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	1.37						1.37
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Professional - SU22	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	0.34						0.34
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure	Professional - SU22	Process sampling [CS2]. ; (open systems) [CS108]		6.86						6.86
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. ; Process sampling [CS2]. ; with local exhaust ventilation [CS109]	13.71	0.01					0.07
6	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	13.71						13.71
7	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	13.71						13.71
8	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]; with local exhaust ventilation [CS109]		27.43	0.05					27.43
9	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		27.43						27.43
10	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		27.43						27.43
11	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. ; with local exhaust ventilation	13.71	0.01					0.14
12	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	13.71						13.71

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Dermal Exposure						
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Dermal exposure (mg/kg/d) - no modifiers	TRA Dermal exposure LEV reduction factor	TRA concentration factor	PPE factor	extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (dermal)	Predicted Dermal Exposure (mg/kg/d) - modified
13	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	13.71						13.71
14	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	6.86						6.86
15	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Professional - SU22	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	6.86						6.86
16	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39]. ; with local exhaust ventilation [CS109]	27.43	0.050					1.37
17	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	27.43		5-25%				16.46
18	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	27.43						27.43
19	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].	with local exhaust ventilation [CS109]	107.14	0.02					2.14
20	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		107.14		5-25%				64.28
21	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		107.14						107.14
22	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		107.14						107.14
23	PROC 13 -Treatment of articles by dipping and pouring	Professional - SU22	Dipping, immersion and pouring [CS4].		13.71						13.71
24	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]	with local exhaust ventilation [CS109]	3.43	0.10					0.34

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Dermal Exposure						
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	TRA Predicted Dermal exposure (mg/kg/d) - no modifiers	TRA Dermal exposure LEV reduction factor	TRA concentration factor	PPE factor	extra exposure modifier: [optional]	Free text - comment to clarify additional modifier (dermal)	Predicted Dermal Exposure (mg/kg/d) - modified
25	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]		3.43						3.43
26	PROC 15 - Use of laboratory reagents in small scale laboratories	Professional - SU22	Laboratory activities [CS36].		0.34						0.34
27	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]		141.43		5-25%	gloves			16.97
28	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]		141.43						141.43

Generic Exposure Scenario:		Professional Processes relevant for Acetone and Acetone containing products				Risk Characterization		
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	RCR (inhalation)	RCR (dermal)	RCR (all routes)	
1	PROC 1 - Use in closed process, no likelihood of exposure	Professional - SU22	General exposures (closed systems) [CS15].	(closed systems) [CS107].; Process sampling [CS2]. ;	0.00002	0.002	0.002	
2	PROC 2 - Use in closed, continuous process with occasional controlled exposure	Professional - SU22	General exposures (closed systems) [CS15].	Continuous process [CS54]. ; Process sampling [CS2].	0.10	0.01	0.11	
3	PROC 3 - Use in closed batch process (synthesis or formulation)	Professional - SU22	General exposures (closed systems) [CS15].	Batch process [CS55]. Process sampling [CS2].	0.20	0.002	0.20	
4	PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Professional - SU22	Process sampling [CS2]. ; (open systems) [CS108]		0.50	0.04	0.54	
5	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. ; Process sampling [CS2]. ; with local exhaust ventilation [CS109]	0.20	0.00	0.20	
6	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	0.70	0.07	0.77	
7	PROC 5 -Mixing or blending in batch processes (multistage and/or significant contact)	Professional - SU22	Mixing operations (open systems) [CS30].	Batch process [CS55]. Process sampling [CS2].	0.60	0.07	0.67	
8	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]; with local exhaust ventilation [CS109]		0.84	0.15	0.99	
9	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		0.84	0.15	0.99	
10	PROC 6 -Calendering operations	Professional - SU22	Calendering (including Banburys) [CS64]		0.72	0.15	0.87	
11	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22]. ; with local exhaust ventilation [CS109]	0.20	0.001	0.20	

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Risk Characterization		
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	RCR (inhalation)	RCR (dermal)	RCR (all routes)
12	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	0.70	0.07	0.77
13	PROC 8a -Transfer of chemicals from/to vessels/ large containers at non dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Non-dedicated facility [CS82]; Transfer from/pouring from containers [CS22].	0.60	0.07	0.67
14	PROC 8b -Transfer of chemicals from/to vessels/ large containers at dedicated facilities	Professional - SU22	Bulk transfers [CS14].	Dedicated facility [CS81]; Transfer from/pouring from containers [CS22].	0.50	0.04	0.54
15	PROC 9 -Transfer of chemicals into small containers (dedicated filling line)	Professional - SU22	Small package filling [CS7].	Dedicated facility [CS81]; Pouring from small containers [CS9].	0.50	0.04	0.54
16	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39]. ; with local exhaust ventilation [CS109]	0.20	0.007	0.21
17	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	0.60	0.09	0.69
18	PROC 10 - Roller application or brushing	Professional - SU22	Rolling, Brushing [CS51].	Or: Equipment cleaning and maintenance [CS39].	0.60	0.15	0.75
19	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].	with local exhaust ventilation [CS109]	0.40	0.01	0.41
20	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		0.50	0.35	0.85
21	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		0.40	0.58	0.98
22	PROC 11 - Non industrial spraying	Professional - SU22	Spraying/fogging by manual application [CS24].		0.20	0.58	0.78

Generic Exposure Scenario: Professional Processes relevant for Acetone and Acetone containing products					Risk Characterization		
No	Use Descriptor (PROCs)	SU 3 / SU 22	Contributing Scenario	Operational Conditions & typical RMMs	RCR (inhalation)	RCR (dermal)	RCR (all routes)
23	PROC 13 - Treatment of articles by dipping and pouring	Professional - SU22	Dipping, immersion and pouring [CS4].		0.50	0.07	0.57
24	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]	with local exhaust ventilation [CS109]	0.20	0.002	0.20
25	PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation	Professional - SU22	Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]		0.60	0.02	0.62
26	PROC 15 - Use of laboratory reagents in small scale laboratories	Professional - SU22	Laboratory activities [CS36].		0.10	0.002	0.10
27	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]		0.60	0.09	0.69
28	PROC 19 - Hand-mixing with intimate contact (only PPE available)	Professional - SU22	Hand application - fingerpaints, pastels, adhesives [CS72]		0.20	0.76	0.96

Identified Consumer Generic Exposure Scenarios (GESs) of Acetone

GES No.	Subsector	Main SU	Description	PC
EC No.				
CAS No.				
1	Uses in Coatings	All Consumer Uses (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, PC5, PC9, PC10, PC15, PC24, PC31
2	Use in Cleaning Agents	All Consumer Uses (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, PC9, PC24, PC32, PC 35, PC38
3	De-icing and anti-icing applications	All Consumer Uses (SU21)	De-icing of vehicles and similar equipment by spraying	PC4

Identified Consumer - PCs & Market Sector - PCs

PC	Acetone			PC type
	Coatings	Cleanings	De-icing	
PC1	x			Consumer
PC3		x		Consumer
PC4	x	x	x	Market Sector
PC9	x	x		Consumer
PC15	x			Market Sector
PC24	x	x		Consumer
PC31	x			Consumer
PC32		x		Market Sector
PC35		x		Consumer
PC38		x		Market Sector

Section 1		Exposure Scenario Title
Title		GES USES
Sector of Use (SU code)		21
Use Descriptor (PC codes)		PC LISTS
Processes, tasks, activities covered		DESCRIPTIONS
Environmental Release Category		
Specific Environmental Release Category		
Section 2		Operational conditions and risk management measures
<i>Field for additional statements to explain scenario if required - pending better understanding from ECHA</i>		
Section 2.1		Control of consumer exposure
Product characteristics		
Physical form of product		liquid
Vapour pressure		24000
Concentration of substance in product		Unless otherwise stated, cover concentrations up to 100% [ConsOC1]
Amounts used		Unless otherwise stated, covers use amounts up to 37500g [ConsOC2]; covers skin contact area up to 6600cm ² [ConsOC5]
Frequency and duration of use/exposure		Unless otherwise stated, covers use frequency up to 4 times per day [ConsOC4]; covers exposure up to 8 hours per event [ConsOC14]
Other Operational Conditions affecting exposure		Unless otherwise stated assumes use at ambient temperatures [ConsOC15]; assumes use in a 20 m ³ room [ConsOC11]; assumes use with typical ventilation [ConsOC8].
Section 2.1.1		Product categories
PC1:Adhesives, sealants--Glues, hobby use	OC	Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm ² [ConsOC5]; for each use event, covers use amounts up to 9g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m ³ [ConsOC11]; for each use event, covers exposure up to 4.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC1:Adhesives, sealants--Glues DIY-use (carpet glue, tile glue, wood parquet glue)	OC	Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 1 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 110.00 cm ² [ConsOC5]; for each use event, covers use amounts up to 6390g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m ³ [ConsOC11]; for each use event, covers exposure up to 6.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC1:Adhesives, sealants--Glue from spray	OC	Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm ² [ConsOC5]; for each use event, covers use amounts up to 85.05g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m ³ [ConsOC11]; for each use event, covers exposure up to 4.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated

Section 2.1.1		Product categories
PC1:Adhesives, sealants--Sealants	OC	Unless otherwise stated, covers concentrations up to 30% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm2 [ConsOC5]; for each use event, covers use amounts up to 75g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 1.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC3:Air care products--Air care, instant action (aerosol sprays)	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 4 times/day of use[ConsOC4]; for each use event, covers use amounts up to 0.1g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.25hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC3:Air care products--Air care, continuous action (solid and liquid)	OC	Unless otherwise stated, covers concentrations up to 10% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.70 cm2 [ConsOC5]; for each use event, covers use amounts up to 0.48g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 8.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC4_n:Anti-freeze and de-icing products--Washing car window	OC	Unless otherwise stated, covers concentrations up to 1% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; for each use event, covers use amounts up to 0.5g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.02hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC4_n:Anti-freeze and de-icing products--Pouring into radiator	OC	Unless otherwise stated, covers concentrations up to 10% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 2000g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC4_n:Anti-freeze and de-icing products--Lock de-icer	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 214.40 cm2 [ConsOC5]; for each use event, covers use amounts up to 4g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.25hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC9a:Coatings and paints, fillers putties, thinners--Waterborne latex wall paint	OC	Unless otherwise stated, covers concentrations up to 1.5% [ConsOC1]; covers use up to 4 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 2760g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.20hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC9a:Coatings and paints, fillers putties, thinners--Solvent rich, high solid, water borne paint	OC	Unless otherwise stated, covers concentrations up to 27.5% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 744g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.20hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated

Section 2.1.1		Product categories
PC9a:Coatings and paints, fillers putties, thinners-- Aerosol spray can	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 2 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; for each use event, covers use amounts up to 215g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.33hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC9a:Coatings and paints, fillers putties, thinners-- Removers (paint-, glue-, wall paper-, sealant- remover)	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 3 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 491g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC9b:Fillers, putties, plasters, modeling clay-- Fillers and putty	OC	Unless otherwise stated, covers concentrations up to 2% [ConsOC1]; covers use up to 12 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 35.73 cm2 [ConsOC5]; for each use event, covers use amounts up to 85g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 4.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC9b:Fillers, putties, plasters, modeling clay-- Plasters and floor equalizers	OC	Unless otherwise stated, covers concentrations up to 2% [ConsOC1]; covers use up to 12 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 13800g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC9b:Fillers, putties, plasters, modeling clay-- Modelling clay	OC	Unless otherwise stated, covers concentrations up to 1% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 254.40 cm2 [ConsOC5]; for each use event, assumes swallowed amount of 1g [ConsOC13];
	RMM	No specific RMMs identified beyond those OCs stated
PC9c:Finger paints --Finger paints	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 254.40 cm2 [ConsOC5]; for each use event, assumes swallowed amount of 1.35g [ConsOC13];
	RMM	Avoid using at a product concentration greater than 5% [ConsRMM1];
PC15_n: Non-metal surface treatment products-- Solvent rich, high solid, water borne paint	OC	Unless otherwise stated, covers concentrations up to 27.5% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 744g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.20hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC15_n: Non-metal surface treatment products-- Aerosol spray can	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 2 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; for each use event, covers use amounts up to 215g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.33hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC15_n: Non-metal surface treatment products-- Removers (paint-, glue-, wall paper-, sealant- remover)	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 3 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 491g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 2.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated

Section 2.1.1		Product categories
PC24: Lubricants, greases, and release products--Liquids	OC	Unless otherwise stated, covers concentrations up to 100% [ConsOC1]; covers use up to 4 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 468.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 2200g [ConsOC2]; Covers use in a one car garage (34m3) under typical ventilation [ConsOC10]; covers use in room size of 34m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14];
	RMM	
PC24: Lubricants, greases, and release products--Pastes	OC	Unless otherwise stated, covers concentrations up to 20% [ConsOC1]; covers use up to 10 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 468.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 34g [ConsOC2]; covers use in room size of m3[ConsOC11];
	RMM	No specific RMMs identified beyond those OCs stated
PC24: Lubricants, greases, and release products--Sprays	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 6 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.75 cm2 [ConsOC5]; for each use event, covers use amounts up to 73g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC31:Polishes and wax blends--Polishes, wax / cream (floor, furniture, shoes)	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 29 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 430.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 142g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 1.23hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC31:Polishes and wax blends--Polishes, spray (furniture, shoes)	OC	Unless otherwise stated, covers concentrations up to 50% [ConsOC1]; covers use up to 8 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 430.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 35g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.33hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC35:Washing and cleaning products (including solvent based products)--Laundry and dish washing products	OC	Unless otherwise stated, covers concentrations up to 5% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 15g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.50hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC35:Washing and cleaning products (including solvent based products)--Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)	OC	Unless otherwise stated, covers concentrations up to 5% [ConsOC1]; covers use up to 128 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 857.50 cm2 [ConsOC5]; for each use event, covers use amounts up to 27g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.33hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
PC35:Washing and cleaning products (including solvent based products)--Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)	OC	Unless otherwise stated, covers concentrations up to 15% [ConsOC1]; covers use up to 128 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; covers skin contact area up to 428.00 cm2 [ConsOC5]; for each use event, covers use amounts up to 35g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 0.17hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated

Section 2.1.1		Product categories
PC38_n: Welding and soldering products, flux products--NOTE, n_assessment not in TRA	OC	Unless otherwise stated, covers concentrations up to 20% [ConsOC1]; covers use up to 365 days/year[ConsOC3]; covers use up to 1 time/on day of use[ConsOC4]; for each use event, covers use amounts up to 12g [ConsOC2]; covers use under typical household ventilation [ConsOC8]; covers use in room size of 20m3[ConsOC11]; for each use event, covers exposure up to 1.00hr/event[ConsOC14];
	RMM	No specific RMMs identified beyond those OCs stated
Section 3		Exposure Estimation ('Flexible' heading)
<p><i>ECHA Note in draft template: Exposure estimation and risk characterisation ratios (for all routes of exposure for consumers and all compartments for environment) resulting from the conditions described under Sections 2.1 and 2.2.), and the substance properties; make reference to the exposure assessment tool applied. Note: Detail could be confusing for customers. Also may be an extensive list. Proposal to include a weblink from where these data can be retrieved (a component of GES development).</i></p>		
3.1. Health		
Health sub-headings (<i>design as phrases</i>)		<i>Standard phrases expected. Ability to Include a web link.</i>
3.2. Environment		
Environment sub-headings (<i>design as phrases</i>)		<i>Standard phrases expected. Ability to Include a web link.</i>
Section 4		Guidance to check compliance with the Exposure Scenario ('Flexible' heading)
<p><i>Guidance how the DU can evaluate whether he operates within the conditions set in the exposure scenario - scaling tools. Standard phrases</i></p>		
4.1. Health		
Health sub-headings (<i>design as phrases</i>)		<i>Utilize TRA, TRA+ and/or CONSEXPO exposure model</i>
4.2. Environment		
Environment sub-headings (<i>design as phrases</i>)		<i>Standard phrases</i>