
1. Short title of Exposure Scenario:

Cleaning Agents

Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Sectors of end-use	: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories	: PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring
Environmental Release Categories	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

2.1 Contributing scenario controlling environmental exposure:

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Product characteristics

Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Viscosity, dynamic	: 2.5 mPa.s at 20 °C

Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice	: No exposure assessment presented for the environment.
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2.2 Contributing scenario controlling worker exposure:

PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13: Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Industrial spraying, Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities, Transfer of

substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Roller application or brushing, Treatment of articles by dipping and pouring

Product characteristics

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
 Physical Form (at time of use) : Liquid, vapour pressure 0.5 - 10 kPa
 Vapour pressure : 5 - 100 hPa
 Process Temperature : 20 °C

Amount used

Remarks : Not applicable.

Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated differently).
 Other Operational Conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Contributing Scenario

Bulk transfers, PROC8a
 Automated process with (semi) closed systems., Use in contained systems, PROC2
 Automated process with (semi) closed systems., Drum/batch transfers, Use in contained systems, PROC3
 Application of cleaning products in closed systems, PROC2
 Filling/ preparation of equipment from drums or containers., PROC8b
 Use in contained batch processes, PROC4
 Degreasing small objects in cleaning station, PROC13
 Cleaning with low-pressure washers, PROC10
 Cleaning with high pressure washers, PROC7
 Manual, Surfaces, Cleaning, no spraying, PROC10

Risk Management Measures

: Clear transfer lines prior to de-coupling.
 : No specific measures identified.
 : No specific measures identified.
 : No specific measures identified.
 : Clear transfer lines prior to de-coupling.
 : No specific measures identified.
 : No specific measures identified.
 : No specific measures identified.
 : Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).
 : No specific measures identified.

3. Exposure estimation and reference to its source

Health

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC8a	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		13.71 mg/kg/day	0.0
PROC2	ECETOC TRA	Inhalation		10 ppm	0.0
		Skin contact		1.37 mg/kg/day	0.0
PROC3	ECETOC TRA	Inhalation		25 ppm	0.1
		Skin contact		0.34 mg/kg/day	0.0
PROC2	ECETOC TRA	Inhalation		10 ppm	0.0
		Skin contact		1.37 mg/kg/day	0.0
PROC8b	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		6.86 mg/kg/day	0.0
PROC4	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		6.86 mg/kg/day	0.0
PROC13	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		13.71 mg/kg/day	0.0
PROC10	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		27.43 mg/kg/day	0.0
PROC7	ECETOC TRA	Inhalation		75 ppm	0.4
		Skin contact		42.86 mg/kg/day	0.0
PROC10	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		13.71 mg/kg/day	0.0

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Environment

No exposure assessment presented for the environment.

Health

Information on scaling calculations can be requested at "reach@de.sasol.com". The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

1. Short title of Exposure Scenario:

Cleaning Agents

Main User Groups	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	: SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	: PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring
Environmental Release Categories	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

2.1 Contributing scenario controlling environmental exposure:

ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

Product characteristics

Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Viscosity, dynamic	: 2.5 mPa.s at 20 °C

Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice : No exposure assessment presented for the environment.

2.2 Contributing scenario controlling worker exposure:

PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13: Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/ discharging) from/ to

vessels/ large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring

Product characteristics

Concentration of the Substance in Mixture/Article	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical Form (at time of use)	: Liquid, vapour pressure 0.5 - 10 kPa
Vapour pressure	: 5 - 100 hPa
Process Temperature	: 20 °C

Amount used

Remarks	: Not applicable.
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Frequency and duration of use

Remarks	: Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature., Assumes a good basic standard of occupational hygiene is implemented.

Contributing Scenario

Risk Management Measures

Filling/ preparation of equipment from drums or containers., PROC8b	: No specific measures identified.
Automated process with (semi) closed systems., Use in contained systems, PROC2	: No specific measures identified.
Automated process with (semi) closed systems., Drum/batch transfers, Use in contained systems, PROC3	: No specific measures identified.
Semi Automated process. (e.g.: Semi automatic application of floor care and maintenance products), PROC4	: No specific measures identified.
Filling/ preparation of equipment from drums or containers., PROC8a	: No specific measures identified.
Manual, Surfaces, Cleaning, Dipping, immersion and pouring, PROC13	: No specific measures identified.
Cleaning with low-pressure washers, Rolling, Brushing, no spraying, PROC10	: No specific measures identified.
Cleaning with high pressure washers, Spraying, Indoor, PROC11	: 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.
Cleaning with high pressure washers, Spraying, Outdoor, PROC11	: Limit the substance content in the product to 5 %. Ensure operation is undertaken outdoors.

: No specific measures identified.

: No specific measures identified.

Manual, Surfaces, Cleaning,
Spraying, PROC10

Ad hoc manual application via
trigger sprays, dipping, etc.,
Rolling, Brushing, PROC10

Ad hoc manual application via
trigger sprays, dipping, etc.,
Rolling, Brushing, PROC10

Application of cleaning products in
closed systems, Outdoor, PROC4

Cleaning of medical devices,
PROC4

3. Exposure estimation and reference to its source

Health

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PROC8b	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		13.71 mg/kg/day	0.0
PROC2	ECETOC TRA	Inhalation		20 ppm	0.1
		Skin contact		1.37 mg/kg/day	0.0
PROC3	ECETOC TRA	Inhalation		25 ppm	0.1
		Skin contact		0.34 mg/kg/day	0.0
PROC4	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		6.86 mg/kg/day	0.0
PROC8a	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		13.71 mg/kg/day	0.0
PROC13	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		13.71 mg/kg/day	0.0
PROC10	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		27.43 mg/kg/day	0.0
PROC11	ECETOC TRA	Inhalation		150 ppm	0.7
		Skin contact		107.14 mg/kg/day	0.1
PROC11	ECETOC TRA	Inhalation		35 ppm	0.2
		Skin contact		107.14 mg/kg/day	0.1
PROC10	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		27.43 mg/kg/day	0.0
PROC10	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		27.43 mg/kg/day	0.0
PROC10	ECETOC TRA	Inhalation		100 ppm	0.5
		Skin contact		27.43 mg/kg/day	0.0
PROC4	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		6.86 mg/kg/day	0.0
PROC4	ECETOC TRA	Inhalation		50 ppm	0.2
		Skin contact		6.86 mg/kg/day	0.0

**Exposure Scenario for Isopropylalcohol CAS: 67-63-0, EC: 200-661-7, RN: 01-2119457558-25
XXXX in product:
KRYSTAL for windows
14. 07. 2020**

CORMEN s.r.o.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Environment

No exposure assessment presented for the environment.

Health

Information on scaling calculations can be requested at "reach@de.sasol.com". The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

1. Short title of Exposure Scenario:

Cleaning Agents

Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)
Sectors of end-use	: SU 21: Consumer uses: Private households (= general public = consumers)
Chemical product category	: PC3: Air care products PC4: Anti-Freeze and de-icing products PC8: Biocidal products (e.g. Disinfectants, pest control) PC9a: Coatings and paints, thinners, paint removers PC9c: Finger paints PC9b: Fillers, putties, plasters, modelling clay PC24: Lubricants, greases, release products PC35: Washing and cleaning products (including solvent based products) PC38: Welding and soldering products (with flux coatings or flux cores.), flux products
Environmental Release Categories	: ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

2.1 Contributing scenario controlling environmental exposure:

ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

Product characteristics

Viscosity, dynamic : 2.5 mPa.s at 20 °C

Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice : No exposure assessment presented for the environment.

2.2 Contributing scenario controlling consumer exposure for: PC3, PC4, PC8, PC9, PC24, PC35, PC38: Air care products, Anti-Freeze and de-icing products, Biocidal products (e.g. Disinfectants, pest control), Coatings and Paints, Fillers, Putties, Thinners, Lubricants, greases, release products, Washing and cleaning products (including solvent based products), Welding and soldering products (with flux coatings or flux cores.), flux products

Product characteristics

Concentration of the Substance in Mixture/Article : Unless otherwise stated, covers concentrations up to 100 %

Physical Form (at time of use) : Liquid substance

Vapour pressure : 60.2 hPa

Amount used

Remarks : For each use event, covers use amounts up to 13,800 g

Frequency and duration of use

Remarks : Covers exposure up to 4 hours/event, Unless otherwise stated, covers use frequency up to 1 times per day

Human factors not influenced by risk management

Dermal exposure : Covers skin contact area up to 857.00 cm²

Other given operational conditions affecting consumers exposure

Remarks : Unless otherwise stated assumes use at ambient temperatures, Covers use in room size of 20 m³, Assumes use with typical ventilation

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Application Route : Air care products, Air care, instant action (aerosol sprays)
Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 4 times per day, For each use event, covers use amounts up to 0.1 g, Covers use in room size of 20 m³, Covers exposure up to 0.25 hours/event, No specific risk management measure identified beyond those operational conditions stated.

Application Route : Air care products, Air care, instant action (aerosol sprays), excipient only

Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 4 times per day, Covers skin contact area up to 428.00 cm², For each use event, covers use amounts up to 0.1 g, Covers use in room size of 20 m³, Covers exposure up to 0.25 hours/event, No specific risk management measure identified beyond those operational conditions stated.

Application Route : Air care products, Air care, continuous action (solid and liquid), excipient only

Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 35.73 cm², For each use event, covers use amounts up to 0.48 g, Covers use in room size of 20 m³, Covers exposure up to 8 hours/event, No specific risk management measure identified beyond those operational conditions stated.

Application Route : Air care products, Air care, continuous action (solid and liquid)

Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 35.73 cm², For each use event, covers use amounts up to 0.48 g, Covers use in room size of 20 m³,

Application Route	: Covers exposure up to 8 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Consumer Measures	: Anti-Freeze and de-icing products, Washing car window : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, For each use event, covers use amounts up to 0.5 g, Covers use in a one car garage (34 m ³) under typical ventilation, Covers use in room size of 34 m ³ , Covers exposure up to 0.02 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Anti-Freeze and de-icing products, Pouring into radiator
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 428.00 cm ² , For each use event, covers use amounts up to 2,000 g, Covers use in a one car garage (34 m ³) under typical ventilation, Covers use in room size of 34 m ³ , Covers exposure up to 0.17 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Anti-Freeze and de-icing products, Lock de-icer
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 214.40 cm ² , For each use event, covers use amounts up to 4 g, Covers use in a one car garage (34 m ³) under typical ventilation, Covers use in room size of 34 m ³ , Covers exposure up to 0.25 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Biocidal products (e.g. Disinfectants, pest control), excipient only, Laundry and dish washing products
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 857.00 cm ² , For each use event, covers use amounts up to 15 g, Covers use in room size of 20 m ³ , Covers exposure up to 0.5 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Biocidal products (e.g. Disinfectants, pest control), excipient only, Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 128 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 857.00 cm ² , For each use event, covers use amounts up to 27 g, Covers use in room size of 20 m ³ , Covers exposure up to 0.33 hours/event, No specific risk management measure identified beyond those operational conditions stated.

Application Route	: Biocidal products (e.g. Disinfectants, pest control), excipient only, Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 128 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 428.00 cm ² , For each use event, covers use amounts up to 35 g, Covers use in room size of 20 m ³ , Covers exposure up to 0.17 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Welding and soldering products (with flux coatings or flux cores.), flux products
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, For each use event, covers use amounts up to 12 g, Covers use in room size of 20 m ³ , Covers exposure up to 1 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Coatings and paints, thinners, paint removers, Solvent rich, high solid, water borne paint
Consumer Measures	: Unless otherwise stated, covers concentrations up to 27.5 %, Covers use up to 6 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 428.00 cm ² , For each use event, covers use amounts up to 744 g, Covers use in room size of 20 m ³ , Covers exposure up to 2.20 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Coatings and paints, thinners, paint removers, Aerosol spray can
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 2 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, For each use event, covers use amounts up to 215 g, Covers use in a one car garage (34 m ³) under typical ventilation, Covers use in room size of 34 m ³ , Covers exposure up to 0.33 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Coatings and paints, thinners, paint removers, Removers (paint-, glue-, wall paper-, sealant-remover)
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 3 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 857.00 cm ² , For each use event, covers use amounts up to 491 g, Covers use in room size of 20 m ³ , Covers exposure up to 2.00 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Fillers, putties, plasters, modelling clay, Fillers and putty
Consumer Measures	: Unless otherwise stated, covers concentrations up to 20 %, Covers use up to 12 days/year, Unless otherwise stated,

	covers use frequency up to 1 times per day, Covers skin contact area up to 35.73 cm ² , For each use event, covers use amounts up to 85 g, Covers use in room size of 20 m ³ , Covers exposure up to 4 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Fillers, putties, plasters, modelling clay, Plasters and floor equalizers
Consumer Measures	: Unless otherwise stated, covers concentrations up to 2 %, Covers use up to 12 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 857.00 cm ² , For each use event, covers use amounts up to 13,800 g, Covers use in room size of 20 m ³ , Covers exposure up to 2.00 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Fillers, putties, plasters, modelling clay, Modelling clay
Consumer Measures	: Unless otherwise stated, covers concentrations up to 20 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 254.40 cm ² , For each use event, assumes swallowed amount of 1 g, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Finger paints
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 254.40 cm ² , For each use event, assumes swallowed amount of 1.35 g, Covers use in room size of 20 m ³ , Avoid using at a product concentration greater than 15 %.
Application Route	: Lubricants, greases, release products, Liquids
Consumer Measures	: Unless otherwise stated, covers concentrations up to 100 %, Covers use up to 4 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 468.00 cm ² , For each use event, covers use amounts up to 2,200 g, Covers use in a one car garage (34 m ³) under typical ventilation, Covers use in room size of 34 m ³ , Covers exposure up to 0.17 hours/event, No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Lubricants, greases, release products, Pastes
Consumer Measures	: Unless otherwise stated, covers concentrations up to 20 %, Covers use up to 10 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 468.00 cm ² , For each use event, covers use amounts up to 34 g, Covers use in room size of 20 m ³ , No specific risk management measure identified beyond those operational conditions stated.
Application Route	: Lubricants, greases, release products, Sprays
Consumer Measures	: Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 6 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 428.00 cm ² , For each use event, covers

- Application Route : use amounts up to 73 g, Covers use in room size of 20 m³, Covers exposure up to 0.17 hours/event, No specific risk management measure identified beyond those operational conditions stated.
- Consumer Measures : Washing and cleaning products (including solvent based products), Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
- Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 128 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 857.00 cm², For each use event, covers use amounts up to 27 g, Covers use in room size of 20 m³, Covers exposure up to 0.33 hours/event, No specific risk management measure identified beyond those operational conditions stated.
- Application Route : Washing and cleaning products (including solvent based products), Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
- Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 128 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 428.00 cm², For each use event, covers use amounts up to 35 g, Covers use in room size of 20 m³, Covers exposure up to 0.17 hours/event, No specific risk management measure identified beyond those operational conditions stated.
- Application Route : Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
- Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 128 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, Covers skin contact area up to 428.00 cm², For each use event, covers use amounts up to 35 g, Covers use in room size of 20 m³, Covers exposure up to 0.17 hours/event
- Application Route : Welding and soldering products (with flux coatings or flux cores.), flux products
- Consumer Measures : Unless otherwise stated, covers concentrations up to 50 %, Covers use up to 365 days/year, Unless otherwise stated, covers use frequency up to 1 times per day, For each use event, covers use amounts up to 12 g, Covers use in room size of 20 m³, Covers exposure up to 1 hours/event

3. Exposure estimation and reference to its source

Health

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PC3	ECETOC TRA	Skin contact, Chronic effects		11.9 mg/kg/day	0.45

**Exposure Scenario for Isopropylalcohol CAS: 67-63-0, EC: 200-661-7, RN: 01-2119457558-25
 XXXX in product:
 KRYSTAL for windows
 14. 07. 2020**

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Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		1000 mg/m ³	0.00
PC3	ECETOC TRA	Skin contact, Chronic effects		11.9 mg/kg/day	0.45
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		1000 mg/m ³	0.00
PC3	ECETOC TRA	Skin contact, Chronic effects		0 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		250 mg/m ³	0.01
PC3	ECETOC TRA	Skin contact, Chronic effects		0 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		250 mg/m ³	0.01
PC4	ECETOC TRA	Skin contact, Chronic effects		0 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		0.1 mg/m ³	0.00
PC4	ECETOC TRA	Skin contact, Chronic effects		14.3 mg/kg/day	0.11
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		5882.4 mg/m ³	0.10
PC4	ECETOC TRA	Skin contact, Chronic effects		17.9 mg/kg/day	0.06

**Exposure Scenario for Isopropylalcohol CAS: 67-63-0, EC: 200-661-7, RN: 01-2119457558-25
 XXXX in product:
 KRYSTAL for windows
 14. 07. 2020**

CORMEN s.r.o.

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		58.8 mg/m ³	0.01
PC8	ECETOC TRA	Skin contact, Chronic effects		85.8 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		1500 mg/m ³	0.08
PC8	ECETOC TRA	Skin contact, Chronic effects		71.5 mg/kg/day	0.22
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		6250 mg/m ³	0.09
PC8	ECETOC TRA	Skin contact, Chronic effects		28.6 mg/kg/day	0.11
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		350 mg/m ³	0.06
PC9a	ECETOC TRA	Skin contact, Chronic effects		35.7 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		93750 mg/m ³	0.43
PC9a	ECETOC TRA	Skin contact, Chronic effects		35.7 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		32500 mg/m ³	0.17
PC9a	ECETOC TRA	Skin contact, Chronic effects		0 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00

**Exposure Scenario for Isopropylalcohol CAS: 67-63-0, EC: 200-661-7, RN: 01-2119457558-25
 XXXX in product:
 KRYSTAL for windows
 14. 07. 2020**

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Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
		Inhalation, Chronic effects		7500 mg/m ³	0.39
PC9a	ECETOC TRA	Skin contact, Chronic effects		128.6 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		90000 mg/m ³	0.06
PC9b	ECETOC TRA	Skin contact, Chronic effects		6 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		50000 mg/m ³	0.60
PC9b	ECETOC TRA	Skin contact, Chronic effects		124.9 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		> 999999 mg/m ³	0.25
PC9b	ECETOC TRA	Skin contact, Chronic effects		25.4 mg/kg/day	0.01
		Ingestion, Chronic effects		10 mg/kg/day	0.77
		Inhalation, Chronic effects		0 mg/m ³	0.00
PC9c	ECETOC TRA	Skin contact, Chronic effects		127.2 mg/kg/day	0.12
		Ingestion, Chronic effects		68 mg/kg/day	0.78
		Inhalation, Chronic effects		0 mg/m ³	
PC24	ECETOC TRA	Skin contact, Chronic effects		71.5 mg/kg/day	0.24
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		125000 mg/m ³	0.04

**Exposure Scenario for Isopropylalcohol CAS: 67-63-0, EC: 200-661-7, RN: 01-2119457558-25
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 14. 07. 2020**

CORMEN s.r.o.

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR
PC24	ECETOC TRA	Skin contact, Chronic effects		28.6 mg/kg/day	0.05
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		0 mg/m ³	0.00
PC24	ECETOC TRA	Skin contact, Chronic effects		35.7 mg/kg/day	0.11
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		7500 mg/m ³	0.14
PC35	ECETOC TRA	Skin contact, Chronic effects		85.8 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		1500 mg/m ³	0.08
PC35	ECETOC TRA	Skin contact, Chronic effects		71.5 mg/kg/day	0.22
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		6250 mg/m ³	0.09
PC35	ECETOC TRA	Skin contact, Chronic effects		28.6 mg/kg/day	0.11
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		350 mg/m ³	0.06
PC38	ECETOC TRA	Skin contact, Chronic effects		0 mg/kg/day	0.00
		Ingestion, Chronic effects		0 mg/kg/day	0.00
		Inhalation, Chronic effects		120 mg/m ³	0.11

**Exposure Scenario for Isopropylalcohol CAS: 67-63-0, EC: 200-661-7, RN: 01-2119457558-25
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4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Environment

No exposure assessment presented for the environment.

Health

Information on scaling calculations can be requested at "reach@de.sasol.com". The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. No exposure assessment presented for the environment.