BYK-A 516

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	BYK-A 516
UFI	:	DS0A-J09J-M00A-NKS6
Product code	:	000000000000114936

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	:	Air Release Additive

1.3 Details of the supplier of the safety data sheet

Company	:	BYK-Chemie GmbH Abelstrasse 45 46483 Wesel
Telephone	:	+49 281 670-0
Telefax	:	+49 281 65735
Information	:	Regulatory Affairs
Telephone	:	+49 281 670-23532
Telefax	:	+49 281 670-23533
E-mail address	:	GHS.BYK@altana.com

1.4 Emergency telephone number

+44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist or vapours.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous components which must be listed on the label:

- 64742-48-9 Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : solution of polyolefins

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9 265-150-3 01-2119463258-33	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304	>= 50 - <= 100

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing : High volume water jet

media

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapours/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s)	:	No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	Workers	Inhalation	Long-term systemic effects	871 mg/m3
	Workers	Dermal	Long-term systemic effects	208 mg/kg
	Consumers	Inhalation	Long-term systemic effects	185 mg/m3
	Consumers	Dermal	Long-term systemic effects	125 mg/kg

	Consumers	Oral	Long-term systemic effects	125 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection
Material : butyl-rubber
Break through time : > 480 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls

General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light yellow

Odour : solvent-like

Melting point/ range : < -15 °C
Method: derived

Boiling point/boiling range : 166 - 176 °C
Method: derived

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : ca. 42 °C
Method: 49 (Pensky-Martens)

Auto-ignition temperature	:	> 200 °C Method: M0062 (Analytics Wesel)
Decomposition temperature	:	No data available
pH	:	insoluble
Viscosity		
Viscosity, dynamic	:	ca. 52 mPa.s (40 °C) Method: P/K 40°C
Viscosity, kinematic	:	68 mm2/s (40 °C)
Solubility(ies)		
Water solubility	:	immiscible
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	ca. 0,1 kPa (20 °C) Method: derived
Density	:	ca. 0,766 g/cm3 (20 °C, 1,013 hPa) Method: 4 (20°C oscillating U-tube)
Relative vapour density	:	No data available

9.2 Other information

Flammability (liquids)	:	Sustains combustion

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid	:	Strong oxidizing agents

Acids

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : No data available

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks : No data available

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : No data available

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:

Germ cell mutagenicity-Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Carcinogenicity

Not classified due to lack of data.

Components:

Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Product:

Remarks : No data available

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Not classified due to lack of data.

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information	:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 3295
RID	:	UN 3295
IMDG	:	UN 3295
IATA	:	UN 3295

14.2 UN proper shipping name

ADR	:	HYDROCARBONS, LIQUID, N.O.S.
RID	:	HYDROCARBONS, LIQUID, N.O.S.
IMDG	:	HYDROCARBONS, LIQUID, N.O.S.
IATA	:	Hydrocarbons, liquid, n.o.s.

14.3 Transport hazard class(es)

ADR	:	3
RID	:	3
IMDG	:	3
IATA	:	3

14.4 Packing group

ADR

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
Tunnel restriction code	:	D/E

RID

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3

IMDG

Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-D
Remarks	:	IMDG Code segregation group - none

IATA (Cargo)

Packing instruction (cargo aircraft)	:	366

Packing group	:	III
Labels	:	Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft)	:	355
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

14.5 Environmental hazards

ADR
Environmentally hazardous : no

RID
Environmentally hazardous : no

IMDG
Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries must be considered:: Number on list 3 Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P5c	FLAMMABLE LIQUIDS

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H304	:	May be fatal if swallowed and enters airways.
H336	:	May cause drowsiness or dizziness.

Full text of other abbreviations

Asp. Tox.	:	Aspiration hazard
Flam. Liq.	:	Flammable liquids
STOT SE	:	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; BGW - Biological Limit Values; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LSPN - List of Hazardous Notified Substances (Chile); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the

International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Flam. Liq. 3	H226	Based on product data or assessment
STOT SE 3	H336	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

IE / EN

Annex: Exposure Scenarios

Table of Contents

Number	Title
ES 1	Distribution of substance; Industrial uses (SU3).
ES 2	Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).
ES 3	Use in coatings; Industrial uses (SU3).
ES 4	Use in coatings; Professional uses (SU22).
ES 5	Use in cleaning agents; Industrial uses (SU3).
ES 6	Use in cleaning agents; Professional uses (SU22).
ES 7	Use in laboratories; Industrial uses (SU3).
ES 8	Use in laboratories; Professional uses (SU22).
ES 9	Use in coatings; Consumer uses (SU21).
ES 10	Use in cleaning agents; Consumer uses (SU21).

ES 1: Distribution of substance; Industrial uses (SU3).

1.1. Title section

Exposure Scenario name	:	Distribution of substance
Structured Short Title	:	Distribution of substance; Industrial uses (SU3).

Environment		
CS 1	**Manufacture of the substance, Formulation into mixture, Formulation into solid matrix, Use of non-reactive processing aid at industrial site (no inclusion into or onto article), Use at industrial site leading to inclusion into/onto article, Use of intermediate, Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article), Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article), Use of reactive processing aid at industrial site (no inclusion into or onto article), Use of functional fluid at industrial site, Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use of reactive processing aid (no inclusion into or onto article, indoor)**	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6c, ERC6d, ERC6b, ERC7, ERC8a, ERC8b
Worker		
CS 2	**Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Transfer of substance or mixture into small containers (dedicated filling line, including weighing), Use as laboratory reagent**	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Formulation into mixture (ERC2) / Formulation into solid matrix (ERC3) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use at industrial site leading to inclusion into/onto article (ERC5) / Use of intermediate (ERC6a) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c) / Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6d) / Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b) / Use of functional fluid at industrial site (ERC7) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of reactive processing aid (no inclusion into or onto article, indoor) (ERC8b)

Product (article) characteristics
Covers percentage substance in the product up to 100 %.

1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Use as laboratory reagent (PROC15)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Amount used (or contained in articles), frequency and duration of use/exposure		
Use frequency	:	Covers exposure up to 480 min/day
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		
Assumes a good basic standard of occupational hygiene is implemented		

1.3. Exposure estimation and reference to its source

Release estimation method:

1.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Risk management measures are based on qualitative risk characterisation.

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

ES 2: Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).

2.1. Title section

Exposure Scenario name	:	Formulation & (re)packing of substances and mixtures
Structured Short Title	:	Formulation & (re)packing of substances and mixtures; Industrial uses (SU3).

Environment		
CS 1	**Formulation into mixture**	ERC2
Worker		
CS 2	**Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Mixing or blending in batch processes, Chemical production where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Transfer of substance or mixture into small containers (dedicated filling line, including weighing), Tabletting, compression, extrusion, pelettisation, granulation, Use as laboratory reagent**	PROC1, PROC2, PROC3, PROC5, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Mixing or blending in batch processes (PROC5) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities

(PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		
Assumes a good basic standard of occupational hygiene is implemented		

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Additional information on exposure estimation
No exposure assessment presented for the environment.

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 3: Use in coatings; Industrial uses (SU3).

3.1. Title section

Exposure Scenario name	:	Use in coatings
Structured Short Title	:	Use in coatings; Industrial uses (SU3).

Environment		
CS 1	**Use of non-reactive processing aid at industrial site (no inclusion into or onto article)**	ERC4
Worker		
CS 2	**Mixing or blending in batch processes, Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Industrial spraying, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Transfer of substance or mixture into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Tabletting, compression, extrusion, pelettisation, granulation, Use as laboratory reagent**	PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

3.2.2. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent

containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Industrial spraying (PROC7) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		
Assumes a good basic standard of occupational hygiene is implemented		

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
No exposure assessment presented for the environment.

3.3.2. Worker exposure: Mixing or blending in batch processes (PROC5) / Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Industrial spraying (PROC7) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Roller application or brushing (PROC10) /

Treatment of articles by dipping and pouring (PROC13) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.

ES 4: Use in coatings; Professional uses (SU22).

4.1. Title section

Exposure Scenario name	:	Use in coatings
Structured Short Title	:	Use in coatings; Professional uses (SU22).

Environment		
CS 1	**Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor), Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)**	ERC8a, ERC8d
Worker		
CS 2	**Mixing or blending in batch processes, Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Roller application or brushing, Non-industrial spraying, Treatment of articles by dipping and pouring, Use as laboratory reagent, Manual activities involving hand contact**	PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

4.2.2. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in

closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Non-industrial spraying (PROC11) / Treatment of articles by dipping and pouring (PROC13) / Use as laboratory reagent (PROC15) / Manual activities involving hand contact (PROC19)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		
Assumes a good basic standard of occupational hygiene is implemented		

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Additional information on exposure estimation
No exposure assessment presented for the environment.

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 5: Use in cleaning agents; Industrial uses (SU3).

5.1. Title section

Exposure Scenario name	:	Use in cleaning agents
Structured Short Title	:	Use in cleaning agents; Industrial uses (SU3).

Environment		
CS 1	**Use in cleaning agents**	ERC4
Worker		
CS 2	**Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Industrial spraying, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Roller application or brushing, Treatment of articles by dipping and pouring**	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

5.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Industrial spraying (PROC7) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		
Assumes a good basic standard of occupational hygiene is implemented		

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
No exposure assessment presented for the environment.

5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 6: Use in cleaning agents; Professional uses (SU22).

6.1. Title section

Exposure Scenario name	:	Use in cleaning agents
Structured Short Title	:	Use in cleaning agents; Professional uses (SU22).

Environment		
CS 1	**Use in cleaning agents**	
Worker		
CS 2	**Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions, Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions, Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition, Chemical production where opportunity for exposure arises, Transfer of substance or mixture (charging/discharging) at non dedicated-facilities, Transfer of substance or mixture (charging/discharging) at dedicated facilities, Roller application or brushing, Non-industrial spraying, Treatment of articles by dipping and pouring**	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure:

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

6.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Non-industrial spraying (PROC11) / Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		
Assumes a good basic standard of occupational hygiene is implemented		

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure:

Additional information on exposure estimation
No exposure assessment presented for the environment.

6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 7: Use in laboratories; Industrial uses (SU3).

7.1. Title section

Exposure Scenario name	:	Use in laboratories
Structured Short Title	:	Use in laboratories; Industrial uses (SU3).

Environment		
CS 1	**Formulation into mixture, Use of non-reactive processing aid at industrial site (no inclusion into or onto article)**	ERC2, ERC4
Worker		
CS 2	**Roller application or brushing, Use as laboratory reagent**	PROC10, PROC15

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

7.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Use as laboratory reagent (PROC15)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Assumes a good basic standard of occupational hygiene is implemented

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation
No exposure assessment presented for the environment.

7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 8: Use in laboratories; Professional uses (SU22).

8.1. Title section

Exposure Scenario name	:	Use in laboratories
Structured Short Title	:	Use in laboratories; Professional uses (SU22).

Environment		
CS 1	**Wide dispersive indoor use of processing aids in open systems**	ERC8a
Worker		
CS 2	**Roller application or brushing, Use as laboratory reagent**	PROC10, PROC15

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Wide dispersive indoor use of processing aids in open systems (ERC8a)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Physical form of product	:	Liquid

8.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Use as laboratory reagent (PROC15)

Product (article) characteristics		
Covers percentage substance in the product up to 100 %.		
Amount used (or contained in articles), frequency and duration of use/exposure		
Use frequency	:	Covers exposure up to 480 min/day
Other conditions affecting workers exposure		
Temperature	:	Assumes use at not more than 20°C above ambient temperature.
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply		

Assumes a good basic standard of occupational hygiene is implemented

8.3. Exposure estimation and reference to its source

Release estimation method:

8.3.2. Worker exposure: Roller application or brushing (PROC10) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Risk management measures are based on qualitative risk characterisation. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 9: Use in coatings; Consumer uses (SU21).

9.1. Title section

Exposure Scenario name	:	Use in coatings
Structured Short Title	:	Use in coatings; Consumer uses (SU21).

Environment		
CS 1	**Use in coatings**	
Consumer		
CS 2	Adhesives, sealants	PC1
CS 3	Adhesives, sealants	PC1
CS 4	Adhesives, sealants	PC1
CS 5	Adhesives, sealants	PC1
CS 6	Coatings and paints, thinners, paint removers	PC9a
CS 7	Coatings and paints, thinners, paint removers	PC9a
CS 8	Coatings and paints, thinners, paint removers	PC9a
CS 9	Coatings and paints, thinners, paint removers	PC9a
CS 10	Fillers, putties, plasters, modelling clay	PC9b
CS 11	Fillers, putties, plasters, modelling clay	PC9b
CS 12	Non-metal surface treatment products	PC15
CS 13	Non-metal surface treatment products	PC15
CS 14	Non-metal surface treatment products	PC15
CS 15	Non-metal surface treatment products	PC15
CS 16	Ink and toners	PC18
CS 17	Leather treatment products	PC23
CS 18	Leather treatment products	PC23
CS 19	Polishes and wax blends	PC31

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure:

Product (article) characteristics

Physical form of product	:	Liquid

9.2.2. Control of consumer exposure: Adhesives, sealants (PC1)

Glues, hobby use (PC1_1)

Product (article) characteristics		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, avoid using a product amount greater than	:	5 g/event
Duration	:	240 min
Use frequency	:	Covers use up to 365 days per year
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.3. Control of consumer exposure: Adhesives, sealants (PC1)

Glues DIY-use (carpet glue, tile glue, wood parquet glue) (PC1_2)

Product (article) characteristics		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
Amount used per event	:	6390 g/event
Duration	:	360 min
Use frequency	:	Covers use up to 1 days per year
Other conditions affecting consumers exposure		
Room size	:	20 m3
Temperature	:	Covers use at ambient temperatures.

9.2.4. Control of consumer exposure: Adhesives, sealants (PC1)

Glue from spray (PC1_3)

Product (article) characteristics		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	85 g/event
Duration	:	60 min
Use frequency	:	Covers use up to 6 days per year
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.5. Control of consumer exposure: Adhesives, sealants (PC1)

Sealants (PC1_4)

Product (article) characteristics		
Covers concentrations up to 100 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, avoid using a product amount greater than	:	25 g/event
Duration	:	60 min
Use frequency	:	Covers use up to 365 days per year
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.6. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Waterborne latex wall paint (PC9a_1, PC15_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	2760 g/event
Use frequency	:	Covers use up to 4 days per year
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.7. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Solvent rich, high solid, water borne paint (PC9a_2, PC15_2)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	744 g/event
Use frequency	:	Covers exposure up to 2,2 h/event
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.8. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Aerosol spray can (PC9a_3, PC15_3)

Product (article) characteristics		
Covers concentrations up to 50 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	215 g/event

Use frequency	:	Covers exposure up to 0,33 h/event
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.9. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a_4, PC15_4)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	491 g/event
Use frequency	:	Covers exposure up to 2 h/event
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.10. Control of consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Fillers and putty (PC9b_1)

Product (article) characteristics		
Covers concentrations up to 2 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	85 g/event
Use frequency	:	Covers exposure up to 4 h/event
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.11. Control of consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Plasters and floor equalizers (PC9b_2)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, avoid using a product amount greater than	:	900 g/event
Use frequency	:	Covers exposure up to 2 h/event
Other conditions affecting consumers exposure		
Room size	:	20 m3

9.2.12. Control of consumer exposure: Non-metal surface treatment products (PC15)

Waterborne latex wall paint (PC9a_1, PC15_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	2760 g/event
Use frequency	:	Covers exposure up to 2,2 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Avoid using when windows closed.

9.2.13. Control of consumer exposure: Non-metal surface treatment products (PC15)

Solvent rich, high solid, water borne paint (PC9a_2, PC15_2)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		

For each use event, covers use amounts up to	:	744 g/event
Use frequency	:	Covers exposure up to 2,2 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

9.2.14. Control of consumer exposure: Non-metal surface treatment products (PC15)

Aerosol spray can (PC9a_3, PC15_3)

Product (article) characteristics		
Covers concentrations up to 50 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	215 g/event
Use frequency	:	Covers exposure up to 0,33 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 34 m3

9.2.15. Control of consumer exposure: Non-metal surface treatment products (PC15)

Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a_4, PC15_4)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	491 g/event
Use frequency	:	Covers exposure up to 2 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

9.2.16. Control of consumer exposure: Ink and toners (PC18)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	40 g/event
Use frequency	:	Covers exposure up to 2,2 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

9.2.17. Control of consumer exposure: Leather treatment products (PC23)

Polishes, wax / cream (floor, furniture, shoes) (PC23_1, PC31_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	56 g/event
Use frequency	:	Covers exposure up to 1,23 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

9.2.18. Control of consumer exposure: Leather treatment products (PC23)

Polishes, spray (furniture, shoes) (PC23_2, PC31_2)

Product (article) characteristics		
Covers concentrations up to 50 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		

For each use event, covers use amounts up to	:	56 g/event
Use frequency	:	Covers exposure up to 0,33 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

9.2.19. Control of consumer exposure: Polishes and wax blends (PC31)

Polishes, wax / cream (floor, furniture, shoes) (PC23_1, PC31_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	142 g/event
Use frequency	:	Covers exposure up to 1,23 h/event
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

9.3. Exposure estimation and reference to its source

9.3.1. Environmental release and exposure:

Additional information on exposure estimation
No exposure assessment presented for the environment.

9.3.2. Consumer exposure: Adhesives, sealants (PC1)

Glues, hobby use (PC1_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.3. Consumer exposure: Adhesives, sealants (PC1)

Glues DIY-use (carpet glue, tile glue, wood parquet glue) (PC1_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.4. Consumer exposure: Adhesives, sealants (PC1)

Glue from spray (PC1_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.5. Consumer exposure: Adhesives, sealants (PC1)

Sealants (PC1_4)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.6. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Waterborne latex wall paint (PC9a_1, PC15_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.7. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Solvent rich, high solid, water borne paint (PC9a_2, PC15_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.8. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Aerosol spray can (PC9a_3, PC15_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.9. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a_4, PC15_4)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.10. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Fillers and putty (PC9b_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.11. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Plasters and floor equalizers (PC9b_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.12. Consumer exposure: Non-metal surface treatment products (PC15)

Waterborne latex wall paint (PC9a_1, PC15_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.13. Consumer exposure: Non-metal surface treatment products (PC15)

Solvent rich, high solid, water borne paint (PC9a_2, PC15_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.14. Consumer exposure: Non-metal surface treatment products (PC15)

Aerosol spray can (PC9a_3, PC15_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.15. Consumer exposure: Non-metal surface treatment products (PC15)

Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a_4, PC15_4)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.16. Consumer exposure: Ink and toners (PC18)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.17. Consumer exposure: Leather treatment products (PC23)

Polishes, wax / cream (floor, furniture, shoes) (PC23_1, PC31_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.18. Consumer exposure: Leather treatment products (PC23)

Polishes, spray (furniture, shoes) (PC23_2, PC31_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.3.19. Consumer exposure: Polishes and wax blends (PC31)

Polishes, wax / cream (floor, furniture, shoes) (PC23_1, PC31_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

9.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

ES 10: Use in cleaning agents; Consumer uses (SU21).

10.1. Title section

Exposure Scenario name	:	Use in cleaning agents
Structured Short Title	:	Use in cleaning agents; Consumer uses (SU21).

Environment		
CS 1	**Use in cleaning agents**	
Consumer		
CS 2	**Use in cleaning agents**	PC8_1, PC35_1
CS 3	**Use in cleaning agents**	PC8_2, PC35_2
CS 4	**Use in cleaning agents**	PC8_3, PC35_3
CS 5	**Use in cleaning agents**	PC9a_1, PC15_1
CS 6	**Use in cleaning agents**	PC9a_2, PC15_2
CS 7	**Use in cleaning agents**	PC9a_3, PC15_3
CS 8	**Use in cleaning agents**	PC9a_4, PC15_4
CS 9	**Use in cleaning agents**	PC9b
CS 10	**Use in cleaning agents**	PC9b
CS 11	**Use in cleaning agents**	PC9b
CS 12	**Use in cleaning agents**	PC9c
CS 13	**Use in cleaning agents**	PC35
CS 14	**Use in cleaning agents**	PC35
CS 15	**Use in cleaning agents**	PC35

10.2. Conditions of use affecting exposure

10.2.1. Control of environmental exposure:

Product (article) characteristics		
Physical form of product	:	Liquid

10.2.2. Control of consumer exposure: Subcategory: Laundry and dish washing products (PC8_1, PC35_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	15 g/event
Duration	:	Covers exposure up to 0,5 hrs
Use frequency	:	Covers use up to 365 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.3. Control of consumer exposure: Subcategory: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

(PC8_2, PC35_2)

Product (article) characteristics		
Covers concentrations up to 5 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	27 g/event
Duration	:	Covers exposure up to 0,33 hrs
Use frequency	:	Covers use up to 128 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.4. Control of consumer exposure: Subcategory: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	35 g/event
Duration	:	Covers exposure up to 0,17 hrs
Use frequency	:	Covers use up to 128 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.5. Control of consumer exposure: Waterborne latex wall paint (PC9a_1, PC15_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	2760 g/event
Duration	:	Covers exposure up to 2,2 hrs
Use frequency	:	Covers use up to 4 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Avoid using when windows closed.

10.2.6. Control of consumer exposure: Solvent rich, high solid, water borne paint (PC9a_2, PC15_2)

Product (article) characteristics

Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	744 g/event
Duration	:	Covers exposure up to 2,2 hrs
Use frequency	:	Covers use up to 6 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Avoid using when windows closed.

10.2.7. Control of consumer exposure: Aerosol spray can (PC9a_3, PC15_3)

Product (article) characteristics		
Covers concentrations up to 50 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	215 g/event
Duration	:	Covers exposure up to 0,33 hrs
Use frequency	:	Covers use up to 2 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 34 m3

10.2.8. Control of consumer exposure: Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a_4, PC15_4)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	491 g/event
Duration	:	Covers exposure up to 2 hrs

Use frequency	:	Covers use up to 3 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Avoid using when windows closed.

10.2.9. Control of consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Fillers and putty (PC9b_1)

Product (article) characteristics		
Covers concentrations up to 2 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	85 g/event
Duration	:	Covers exposure up to 4 hrs
Use frequency	:	Covers use up to 12 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.10. Control of consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Plasters and floor equalizers (PC9b_2)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	900 g/event
Duration	:	Covers exposure up to 2 hrs
Use frequency	:	Covers use up to 12 days per year

Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.11. Control of consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Modelling clay (PC9b_3)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	13800 g/event
Duration	:	Covers exposure up to 8 hrs
Use frequency	:	Covers use up to 365 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.12. Control of consumer exposure: Finger paints (PC9c)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	13800 g/event
For each use event, assumes swallowed amount of	:	1,35 g/event
Duration	:	Covers exposure up to 8 hrs
Use frequency	:	Covers use up to 365 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3

Ventilation rate	:	Covers use under typical household ventilation.

10.2.13. Control of consumer exposure: Washing and cleaning products (PC35)

Laundry and dish washing products (PC35_1, PC8_1)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	15 g/event
Duration	:	Covers exposure up to 0,5 hrs
Use frequency	:	Covers use up to 365 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.14. Control of consumer exposure: Washing and cleaning products (PC35)

Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) (PC8_2, PC35_2)

Product (article) characteristics		
Covers concentrations up to 5 %		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	27 g/event
Duration	:	Covers exposure up to 0,33 hrs
Use frequency	:	Covers use up to 128 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.2.15. Control of consumer exposure: Washing and cleaning products (PC35)

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Product (article) characteristics		
Physical form of product	:	Liquid
Amount used (or contained in articles), frequency and duration of use/exposure		
For each use event, covers use amounts up to	:	35 g/event
Duration	:	Covers exposure up to 0,17 hrs
Use frequency	:	Covers use up to 128 days per year
Other conditions affecting consumers exposure		
Room size	:	Covers use in room size of 20 m3
Ventilation rate	:	Covers use under typical household ventilation.

10.3. Exposure estimation and reference to its source

10.3.1. Environmental release and exposure:

Additional information on exposure estimation
No exposure assessment presented for the environment.

10.3.2. Consumer exposure: Subcategory: Laundry and dish washing products (PC8_1, PC35_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.3. Consumer exposure: Subcategory: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

(PC8_2, PC35_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.4. Consumer exposure: Subcategory: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.5. Consumer exposure: Waterborne latex wall paint (PC9a_1, PC15_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.6. Consumer exposure: Solvent rich, high solid, water borne paint (PC9a_2, PC15_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.7. Consumer exposure: Aerosol spray can (PC9a_3, PC15_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.8. Consumer exposure: Removers (paint-, glue-, wall paper-, sealant-remover) (PC9a_4, PC15_4)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.9. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Fillers and putty (PC9b_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.10. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Plasters and floor equalizers (PC9b_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.11. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Modelling clay (PC9b_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.12. Consumer exposure: Finger paints (PC9c)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.13. Consumer exposure: Washing and cleaning products (PC35)

Laundry and dish washing products (PC35_1, PC8_1)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.14. Consumer exposure: Washing and cleaning products (PC35)

Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) (PC8_2, PC35_2)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.3.15. Consumer exposure: Washing and cleaning products (PC35)

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Additional information on exposure estimation
No exposure assessment presented for human health.

10.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.
Risk management measures are based on qualitative risk characterisation.
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.