

according to Regulation (EC) No. 1907/2006

Revision Date 19.07.2018

Version 10.1

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier		
Catalogue No.	105679	
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur	
REACH Registration Number	01-2119560574-35-XXXX	
CAS-No.	7447-41-8	
1.2 Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses	Reagent for analysis	
	In compliance with the conditions described in the annex to this safety data sheet.	
1.3 Details of the supplier of the safety data sheet		
Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0	
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com	
1.4 Emergency telephone number	Please contact the regional company representation in your country.	

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4, Oral, H302

Skin irritation, Category 2, H315

Eye irritation, Category 2, H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS, Reag. Ph Eur

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

Hazard statements

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling (≤125 ml) Hazard pictograms



Signal word Warning

CAS-No.

7447-41-8

2.3 Other hazards

None known.

according to Regulation (EC) No. 1907/2006

Catalogue No.105679Product nameLithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

SECTION 3. Composition/information on ingredients 3.1 Substance

Formula	LiCl	CILi (Hill)
EC-No.	231-212-3	
Molar mass	42,39 g/m	ol

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No. Registration number Classification

Lithium chloride (<= 100 %)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

7447-41-8	01-2119560574-35-	
	XXXX	Acute toxicity, Category 4, H302
		Skin irritation, Category 2, H315
		Eye irritation, Category 2, H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The Safety Data Sheets for catalogue items are available at www.merckgroup.com

according to Regulation (EC) No. 1907/2006

Catalogue No.	105679
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

irritant effects, Drowsiness, Diarrhoea, Nausea, Vomiting, cardiovascular disorders, Tiredness, Impairment of vision

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of:

Hydrogen chloride gas

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

according to Regulation (EC) No. 1907/2006

Catalogue No.105679Product nameLithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage 7.1 Precautions for safe handling

Advice on safe handling Observe label precautions.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

See exposure scenario in the Annex to this MSDS.

according to Regulation (EC) No. 1907/2006

105679

Catalogue No.

Product name

Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)			
Worker DNEL, acute	Systemic effects	dermal	100 mg/kg Body weight
Worker DNEL, acute	Systemic effects	inhalation	30 mg/m³
Worker DNEL, longterm	Systemic effects	dermal	73,2 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	10 mg/m³
Consumer DNEL, longterm	Systemic effects	dermal	72,3 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	10 mg/m³
Consumer DNEL, longterm	Systemic effects	oral	7,32 mg/kg Body weight
Predicted No Effect Concentration (PNEC) PNEC Fresh water 10,4 mg/l			
PNEC Fresh water sediment		49,9 mg/kg	
PNEC Marine water		1,004 mg/l	
PNEC Marine sediment		4,99 mg/kg	
PNEC Soil		4,13 mg/kg	
PNEC Sewage treatment plant		140,2 mg/l	

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

according to Regulation (EC) No. 1907/2006

Catalogue No.	105679
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Safety glasses

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min
Glove material:	Nitrile rubber

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment protective clothing

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties 9.1 Information on basic physical and chemical properties

Form	solid
Colour	colourless
Odour	odourless
Odour Threshold	Not applicable
рН	ca. 6 at 50 g/l 20 °C
Melting point	614 °C
Boiling point/boiling range	1.360 °C at 1.013 hPa
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable

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according to Regulation (EC) No. 1907/2006

Catalogue No.	105679
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur
Vapour pressure	1,33 hPa
	at 547 °C
Relative vapour density	No information available.
Density	2,07 g/cm3
	at 20 °C
Relative density	No information available.
Water solubility	832 g/l
	at 20 °C
Partition coefficient: n-	No information available.
octanol/water	
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
	Not clossified as explosive
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	
	Notapplicable
Ignition temperature	Not applicable
Bulk density	ca.530 kg/m3

SECTION 10. Stability and reactivity 10.1 Reactivity See section 10.3

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according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

10.2 Chemical stability

hygroscopic

10.3 Possibility of hazardous reactions

Risk of explosion with:, Exothermic reaction with:

Alkali metals, halogen-halogen compounds

Violent reactions possible with:

Strong acids

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information 11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 526 mg/kg

(RTECS)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity LC50 Rat: > 5,57 mg/l; 4 h ; aerosol OECD Test Guideline 403

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity LD50 Rat: > 2.000 mg/kg OECD Test Guideline 402

according to Regulation (EC) No. 1907/2006

Catalogue No.105679Product nameLithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Skin irritation Rabbit Result: Irritations

(IUCLID) Causes skin irritation. *Eye irritation* Causes serious eye irritation. Rabbit Result: Eye irritation OECD Test Guideline 405 *Sensitisation* Buehler Test Guinea pig Result: negative Method: OECD Test Guideline 406

Germ cell mutagenicity Genotoxicity in vitro Ames test Result: negative

(Lit.)

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure This information is not available.

according to Regulation (EC) No. 1907/2006

Catalogue No.105679Product nameLithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

After absorption of toxic quantities:

Drowsiness, Impairment of vision, lack of appetite, change in weight, Tiredness, Diarrhoea,

Vomiting, Nausea, cardiovascular disorders, disturbed electrolyte balance.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 Oncorhynchus mykiss (rainbow trout): 158 mg/l; 96 h Analytical monitoring: yes OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates static test EC50 Daphnia magna (Water flea): 249 mg/l; 48 h OECD Test Guideline 202

Toxicity to algae

static test EC50 Desmodesmus subspicatus (green algae): > 400 mg/l; 72 h

OECD Test Guideline 201

12.2 Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

according to Regulation (EC) No. 1907/2006

Catalogue No.	105679
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information Land transport (ADR/RID)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Inland waterway transport (ADN)	
Not relevant	
Air transport (IATA)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Sea transport (IMDG)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
14.7 Transport in bulk according Not relevant	to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15. Regulatory information

EU regulations	
Major Accident Hazard	SEVESO III
Legislation	Not applicable

according to Regulation (EC) No. 1907/2006

Catalogue No.	105679	105679		
Product name	Lithium chloride f	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur		
Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.			
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer		not regulated		
Regulation (EC) No 850/2004 Parliament and of the Council persistent organic pollutants a Directive 79/117/EEC	of 29 April 2004 on	not regulated		
Substances of very high conce	ern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of \ge 0.1 % (w/w).		
National legislation				
Storage class	10 - 13			

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Training advice

Provide adequate information, instruction and training for operators.

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Labelling Hazard pictograms



Signal word Warning

Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements

Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

EXPOSURE SCENARIO 1 (Industrial use)

1. Industrial use Reagent for analysis)

Sectors of end-use

Chemical product category		
SU 10	Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)	
SU9	Manufacture of fine chemicals	
SU 3	Industrial uses: Uses of substances as such or in preparations at industrial sites	

PC21 Laboratory chemicals

Process categories

Environmental Release Categories		
PROC15	Use as laboratory reagent	
PROC10	Roller application or brushing	
	weighing)	
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including	
	containers at dedicated facilities	
PROC8b	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large	
	containers at non-dedicated facilities	
PROC8a	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large	
	(multistage and/ or significant contact)	
PROC5	Mixing or blending in batch processes for formulation of preparations and articles	
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises	
PROC3	Use in closed batch process (synthesis or formulation)	
PROC1	Use in closed process, no likelihood of exposure	
	•	

ERC2 Formulation of preparations

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure for: PROC1, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC15

according to Regulation (EC) No. 1907/2006

Catalogue No.	105679		
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur		
Product characteristics			
Concentration of the Substance in	Covers the percentage of the substance in the product up to		
Mixture/Article	100 %.		
Physical Form (at time of use)	Solid, medium dustiness		
Frequency and duration of use			
Frequency of use	8 hours/day		
Frequency of use	5 days/week		
Other operational conditions affecting workers exposure			
Outdoor / Indoor	Indoor with good general ventilation		
Conditions and measures related to personal protection, hygiene and health evaluation			
Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Tightly			
fitting safety goggles			
Additional good practice advice beyond the REACH Chemical Safety Assessment			

Additional good practice advice Wear suitable coveralls to prevent exposure to the skin.

3. Exposure estimation and reference to its source

Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3

(Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.1	PROC1	longterm, inhalative, systemic	0,05	ECETOC TRA
		longterm, dermal, systemic	< 0,01	ECETOC TRA
		longterm, combined, systemic	0,05	
2.1	PROC3	longterm, inhalative, systemic	0,1	ECETOC TRA
		longterm, dermal, systemic	< 0,01	ECETOC TRA
		longterm, combined, systemic	0,1	
2.1	PROC4	longterm, inhalative, systemic	0,5	ECETOC TRA
		longterm, dermal, systemic	< 0,01	ECETOC TRA
		longterm, combined, systemic	0,5	
2.1	PROC5	longterm, inhalative, systemic	0,5	ECETOC TRA
		longterm, dermal, systemic	0,01	ECETOC TRA
		longterm, combined, systemic	0,51	
2.1	PROC8a	longterm, inhalative, systemic	0,88	ECETOC TRA
		longterm, dermal, systemic	0,01	ECETOC TRA
		longterm, combined, systemic	0,89	
2.1	PROC8b	longterm, inhalative, systemic	0,1	ECETOC TRA
		longterm, dermal, systemic	0,01	ECETOC TRA
		longterm, combined, systemic	0,11	
2.1	PROC9	longterm, inhalative, systemic	0,5	ECETOC TRA
		longterm, dermal, systemic	< 0,01	ECETOC TRA
		longterm, combined, systemic	0,5	
2.1	PROC10	longterm, inhalative, systemic	< 0,01	ECETOC TRA
		longterm, dermal, systemic	0,03	ECETOC TRA
		longterm, combined, systemic	0,04	
2.1	PROC15	longterm, inhalative, systemic	0,05	ECETOC TRA
		longterm, dermal, systemic	< 0,01	ECETOC TRA
		longterm, combined, systemic	0,05	

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

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

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

For scaling of worker exposure assessments performed with ECETOC TRA, please consult the Merck

according to Regulation (EC) No. 1907/2006

Catalogue No.

Product name

105679 Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur

tool ScIDeEx® at www.merckmillipore.com/scideex.

according to Regulation (EC) No. 1907/2006

Catalogue No.		105679			
Product name		Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur			
EXPOSURE	EXPOSURE SCENARIO 2 (Professional use)				
1. Profession	nal use Reagent for analys	is)			
Sectors of	f end-use				
SU 22	Professional uses: Publ craftsmen)	ic domain (administration, education, entertainment, services,			
Chemical	product category				
PC21	Laboratory chemicals				
Process c	ategories				
PROC15	PROC15 Use as laboratory reagent				
Environme	ental Release Categories				
ERC2	Formulation of preparat	ions			
2. Contributi	ng scenarios: Operational	conditions and risk management measures			
2.1 Contribu	ting scenario controlling w	orker exposure for: PROC15			
Product cha	racteristics				
Concentra	ation of the Substance in	Covers the percentage of the substance in the product up to			
Mixture/Article		100 %.			
Physical Form (at time of use)		Solid, medium dustiness			
Frequency a	and duration of use				
Frequency of use		8 hours/day			
Frequency of use		5 days/week			
Other operation	tional conditions affecting v	vorkers exposure			
Outdoor /	Indoor	Indoor with good general ventilation			

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Tightly fitting safety goggles

Additional good practice advice beyond the REACH Chemical Safety Assessment

according to Regulation (EC) No. 1907/2006

Catalogue No.	105679	
Product name	Lithium chloride for analysis EMSURE® ACS,Reag. Ph Eur	
Additional good practice advice	Wear suitable coveralls to prevent exposure to the skin.	

3. Exposure estimation and reference to its source

Environment

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3

(Environmental Hazard Assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterisation is not necessary (REACH Annex I section 5.0).

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
-		longterm, inhalative, systemic	0,05	ECETOC TRA
2.1	PROC15	longterm, dermal, systemic	< 0,01	ECETOC TRA
		longterm, combined, systemic	0,05	

The default parameters and -efficiencies of the applied exposure assessment model were used for the calculation (unless stated differently).

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

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).

For scaling of worker exposure assessments performed with ECETOC TRA, please consult the Merck tool ScIDeEx® at www.merckmillipore.com/scideex.

according to Regulation (EC) No. 1907/2006

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