

according to Regulation (EC) No. 1907/2006

Revision Date 31.01.2017

Version 12.0

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

1.1 Product identifier

Catalogue No. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

REACH Registration Number 01-2119494219-28-XXXX

CAS-No. 10035-04-8

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

Identified uses Reagent for analysis, Chemical production

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 Please contact the regional company representation in your country.

number

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2, H319

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

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

Response

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

Index-No. 017-013-00-2

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

according to Regulation (EC) No. 1907/2006

Catalogue No. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

Formula CaCl₂*2H₂O (Hill)

Index-No. 017-013-00-2

EC-No. 233-140-8

Molar mass 147,01 g/mol

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

Chemical Name (Concentration)

CAS-No. Registration number Classification

Calcium chloride dihydrate (<= 100 %)
PBT/vPvB: Not applicable for inorganic substances

10035-04-8 01-2119494219-28-

XXXX 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

irritant effects, Stomach/intestinal disorders irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

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

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.

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

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

Change contaminated clothing. Wash hands 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.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

according to Regulation (EC) No. 1907/2006

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

inhalation

5 mg/m³

Derived No Effect Level (DNEL)

Worker DNEL, longterm	Local effects	inhalation	5 mg/m³
Worker DNEL, acute	Local effects	inhalation	10 mg/m³
Consumer DNEL, longterm	Local effects	inhalation	2,5 mg/m³

Local effects

8.2 Exposure controls

Consumer DNEL, acute

Engineering measures

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

See section 7.1.

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

splash contact:

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

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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 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 white

Odour odourless

Odour Threshold Not applicable

according to Regulation (EC) No. 1907/2006

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Product name	Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur		
рН	4,5 - 8,5		
	at 50 g/l		
	20 °C		
Melting point	ca. 176 °C		
Boiling point	No information available.		
Flash point	does not flash		
Evaporation rate	No information available.		
Flammability (solid, gas)	The product is not flammable.		
Lower explosion limit	Not applicable		
Upper explosion limit	Not applicable		
Vapour pressure	No information available.		
Relative vapour density	No information available.		
Density	1,85 g/cm3		
·	at 20 °C		
Relative density	No information available.		
Water solubility	1.280 g/l		
	at 40 °C		
Partition coefficient: n-	No information available.		
octanol/water			
Auto-ignition temperature	No information available.		
Decomposition temperature	No information available.		

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Viscosity, dynamic No information available.

Explosive properties Not classified as explosive.

Oxidizing properties none

9.2 Other data

Ignition temperature not combustible

SECTION 10. Stability and reactivity

10.1 Reactivity

exothermic dissolution process with water

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Exothermic reaction with:

boron trifluoride, vinylmethyl ether, Water

Generates dangerous gases or fumes in contact with:

Metals, Zinc

10.4 Conditions to avoid

Exposure to moisture

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Symptoms: After uptake of large quantities:, Stomach/intestinal disorders

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity

LD50 Rat: 2.630 mg/kg

(anhydrous substance) (IUCLID)

Skin irritation

Rabbit

Result: No irritation

OECD Test Guideline 404

(anhydrous substance)

Eye irritation

Rabbit

Result: Eye irritation

OECD Test Guideline 405

(anhydrous substance)

Causes serious eye irritation.

Sensitisation

This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Result: negative

(anhydrous substance) (Lit.)

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

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.

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

11.2 Further information

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

LC50 Lepomis macrochirus (Bluegill sunfish): 10.650 mg/l; 96 h

(anhydrous substance) (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 144 mg/l; 48 h

(anhydrous substance) (IUCLID)

Toxicity to algae

IC50 algae: 3.130 mg/l; 120 h (anhydrous substance) (IUCLID)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

according to Regulation (EC) No. 1907/2006

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB: Not applicable for inorganic substances

12.6 Other adverse effects

Additional ecological information

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 to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

according to Regulation (EC) No. 1907/2006

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

EU regulations

Major Accident Hazard SEVESO III
Legislation Not applicable

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at

work.

Regulation (EC) No 1005/2009 on substances that not regulated

deplete the ozone layer

Regulation (EC) No 850/2004 of the European not regulated

Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending

Directive 79/117/EEC

Substances of very high concern (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 ≥ 0.1 % (w/w).

National legislation

Storage class 10 - 13

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out according to regulation (EC) No. 1907/2006 (REACH) for this substance.

SECTION 16. Other information

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

H319 Causes serious eye irritation.

Training advice

according to Regulation (EC) No. 1907/2006

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

Response

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

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. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

EXPOSURE SCENARIO 1 (Industrial use)

1. Industrial use Reagent for analysis, Chemical production)

Sectors of end-use

SU 3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU 10 Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

Chemical product category

PC19 Intermediate

PC21 Laboratory chemicals

Process categories

PROC1	Use in closed process, no likelihood of exposure
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles
	(multistage and/ or significant contact)
PROC8a	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large
	containers at non-dedicated facilities
PROC8b	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large
	containers at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including
	weighing)
PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROC14	Production of preparations or articles by tabletting, compression, extrusion, pelletisation
PROC15	Use as laboratory reagent
PROC22	Potentially closed processing operations with minerals/ metals at elevated temperature;
	Industrial setting
PROC23	Open processing and transfer operations with minerals/ metals at elevated temperature

Environmental Release Categories

according to Regulation (EC) No. 1907/2006

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Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

ERC2 Formulation of preparations

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

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b Industrial use of reactive processing aids

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8b, PROC13, PROC14, PROC15, PROC22, PROC23

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 without local exhaust ventilation (LEV)

Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

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

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

2.2 Contributing scenario controlling worker exposure for: PROC4, PROC5, PROC8a, PROC9, PROC10

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

according to Regulation (EC) No. 1907/2006

Catalogue No. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

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

Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

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

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

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. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.1	PROC1	acute, inhalative, local	< 0,01	ECETOC TRA 3
		longterm, inhalative, local	< 0,01	ECETOC TRA 3
2.1	PROC2	acute, inhalative, local	0,05	ECETOC TRA 3
		longterm, inhalative, local	0,1	ECETOC TRA 3
2.1	PROC3	acute, inhalative, local	0,1	ECETOC TRA 3
		longterm, inhalative, local	0,2	ECETOC TRA 3
2.1	PROC8b	acute, inhalative, local	0,1	ECETOC TRA 3
		longterm, inhalative, local	0,2	ECETOC TRA 3
2.1	PROC13	acute, inhalative, local	0,1	ECETOC TRA 3
		longterm, inhalative, local	0,2	ECETOC TRA 3
2.1	PROC14	acute, inhalative, local	0,1	ECETOC TRA 3
		longterm, inhalative, local	0,2	ECETOC TRA 3
2.1	PROC15	acute, inhalative, local	0,05	ECETOC TRA 3
		longterm, inhalative, local	0,1	ECETOC TRA 3
2.1	PROC22	acute, inhalative, local	0,3	ECETOC TRA 3
		longterm, inhalative, local	0,6	ECETOC TRA 3
2.1	PROC23	acute, inhalative, local	0,3	ECETOC TRA 3
		longterm, inhalative, local	0,6	ECETOC TRA 3
2.2	PROC4	acute, inhalative, local	0,35	ECETOC TRA 3
		longterm, inhalative, local	0,7	ECETOC TRA 3
2.2	PROC5	acute, inhalative, local	0,35	ECETOC TRA 3
		longterm, inhalative, local	0,7	ECETOC TRA 3
2.2	PROC8a	acute, inhalative, local	0,35	ECETOC TRA 3
		longterm, inhalative, local	0,7	ECETOC TRA 3
2.2	PROC9	acute, inhalative, local	0,35	ECETOC TRA 3
		longterm, inhalative, local	0,7	ECETOC TRA 3
2.2	PROC10	acute, inhalative, local	0,35	ECETOC TRA 3
		longterm, inhalative, local	0,7	ECETOC TRA 3

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

For (other) local effects risk management measures are based on qualitative risk characterisation.

according to Regulation (EC) No. 1907/2006

Catalogue No. 102382

Product name Calcium chloride dihydrate 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 tool ScIDeEx® at www.merckmillipore.com/scideex.

according to Regulation (EC) No. 1907/2006

Catalogue No. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

EXPOSURE SCENARIO 2 (Professional use)

1. Professional use Reagent for analysis, Chemical production)

Sectors of end-use

SU 22 Professional uses: Public domain (administration, education, entertainment, services,

craftsmen)

Chemical product category

PC21 Laboratory chemicals

Process categories

PROC15 Use as laboratory reagent

Environmental Release Categories

ERC2 Formulation of preparations

ERC8a Wide dispersive indoor use of processing aids in open systems

ERC8b Wide dispersive indoor use of reactive substances in open systems

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure for: PROC15

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 without local exhaust ventilation (LEV)

Organisational measures to prevent /limit releases, dispersion and exposure

Covers daily exposures up to 8 hours.

according to Regulation (EC) No. 1907/2006

Catalogue No. 102382

Product name Calcium chloride dihydrate for analysis EMSURE® ACS,Reag. Ph Eur

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

Wear suitable gloves tested to EN374. Tightly fitting safety goggles

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
2.1	PROC15	acute, inhalative, local	0,05	ECETOC TRA 3
		longterm, inhalative, local	0,1	ECETOC TRA 3

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

For (other) local effects risk management measures are based on qualitative risk characterisation.

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

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

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