SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Revision Date 01.05.2014 Version 16.2

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

1.1 Product identifier

Catalogue No.	106050
Product name	Dichloromethane for analysis EMSURE® ACS,ISO,Reag. Ph Eur
REACH Registration Number	01-2119480404-41-XXXX
CAS-No.	75-09-2

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	EQ-RS * 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)

Carcinogenicity, Category 2, H351

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

Classification (67/548/EEC or 1999/45/EC)

Carc.Cat.3 Carcinogenic Category 3 R40

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word

Warning

Hazard statements

H351 Suspected of causing cancer.

Precautionary statements

Prevention
P281 Use personal protective equipment as required.
Response
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Index-No. 602-004-00-3

2.3 Other hazards
None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Formula	CH_2Cl_2	CH_2Cl_2 (Hill)
Index-No.	602-004-00-3	
EC-No.	200-838-9	
Molar mass	84,93 g/mol	

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

Chemical Name (Concentration)

CAS-No.	Registration number	Classification
dichlormethane *(>= 50 % - <= 100 %)*		
Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.		
75-09-2	01-2119480404-41-XXXX	Carcinogenicity, Category 2, H351

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

Hazardous components (1999/45/EC)

Chemical Name (Concentration)

CAS-No.	Classification
dichlormethane *(>= 50 % - <= 100 %)*	
75-09-2	Carc.Cat.3; R40

For the full text of the R-phrases 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. Consult a physician.

After skin contact: wash off with plenty of water. Remove contaminated clothing. Consult a physician.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Call a physician immediately. Subsequently administer: activated charcoal (20 - 40 g in 10% slurry).

4.2 Most important symptoms and effects, both acute and delayed

irritant effects, respiratory paralysis, depressed respiration, Drowsiness, Dizziness, Unconsciousness, narcosis, inebriation, Nausea, Vomiting, CNS disorders
Risk of corneal clouding.
The following applies to aliphatic halogenated hydrocarbons in general: systemic effect: narcosis, cardiovascular isorders. Toxic effect on liver, kidneys.

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.
Vapours are heavier than air and may spread along floors.
Ambient fire may liberate hazardous vapours.
Fire may cause evolution of:
Hydrogen chloride gas, Phosgene

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: Do not breathe vapours, aerosols. 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 empty into 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 with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

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

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

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. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Protected from light.

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

Derived No Effect Level (DNEL)

Worker DNEL, acute	Systemic effects	inhalation	706 mg/m³
Worker DNEL, longterm	Systemic effects	inhalation	353 mg/m³
Worker DNEL, longterm	Systemic effects	dermal	4750 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	oral	0,06 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	dermal	2395 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	88,3 mg/m³
Consumer DNEL, acute	Systemic effects	inhalation	353 mg/m³

Predicted No Effect Concentration (PNEC)

PNEC Fresh water	0,54 mg/l
PNEC Fresh water sediment	4,47 mg/kg
PNEC Marine water	0,194 mg/l
PNEC Marine sediment	1,61 mg/kg
PNEC Aquatic intermittent release	0,27 mg/l
PNEC Sewage treatment plant	26 mg/l
PNEC Soil	0,583 mg/kg

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.

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

splash contact:

Glove material:	Viton (R)
Glove thickness:	0,70 mm
Break through time:	> 120 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 890 Vitoject® (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 vapours/aerosols are generated.
Recommended Filter type: Filter AX (EN 371)
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 empty into drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	sweet
Odour Threshold	24,9 - 611,7 ppm
pH	at 20 °C neutral

Melting point	-95 °C
Boiling point/boiling range	40 °C at 1.013 hPa
Flash point	does not flash
Evaporation rate	1,9
Flammability (solid, gas)	not applicable
Lower explosion limit	13 %(V)
Upper explosion limit	22 %(V)
Vapour pressure	475 hPa at 20 °C
Relative vapour density	2,93
Density	1,33 g/cm³ at 20 °C
Relative density	No information available.
Water solubility	20 g/l at 20 °C
Partition coefficient: n-octanol/water	log Pow: 1,25 (experimental) (Lit.) Bioaccumulation is not expected.
Auto-ignition temperature	No information available.
Decomposition temperature	> 120 °C
Viscosity, dynamic	0,43 mPa.s at 20 °C
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other data

Ignition temperature	605 °C DIN 51794

SECTION 10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Sensitivity to light

Stabilizer
2-methyl-2-butene

10.3 Possibility of hazardous reactions
Risk of explosion with:

Alkali metals, nitrogen oxides, nitrogen dioxide, Potassium, sodium azide, perchloric acid, Nitric acid, aluminium chloride, Amines, Oxygen, (as liquefied gas), powdered aluminium, sodium

aromatic hydrocarbons, with

powdered aluminium

Exothermic reaction with:

Alkaline earth metals, Powdered metals, amides, alcoholates, nonmetallic oxides, potassium tert-butanolate, sodium amide

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
rubber, various plastics, Light metals, Metals, Mild steel

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: 1.600 mg/kg (RTECS)

LDLO human: 357 mg/kg (RTECS)

Symptoms: Nausea, Vomiting, Risk of aspiration upon vomiting., Aspiration may cause pulmonary oedema and pneumonitis.

absorption

Acute inhalation toxicity
LC50 rat: 88 mg/l; 30 min (IUCLID)

Symptoms: mucosal irritations

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

Skin irritation
rabbit
Result: Irritations
(IUCLID)
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Eye irritation
rabbit
Result: slight irritation
(IUCLID)
Risk of corneal clouding.

Sensitisation
Patch test:
Result: negative
(IUCLID)

Germ cell mutagenicity
Genotoxicity in vitro
Mutagenicity (mammal cell test): chromosome aberration.
Result: negative
(National Toxicology Program)

Ames test
Salmonella typhimurium
Result: positive
Method: OECD Test Guideline 471

Carcinogenicity
This information is not available.

Reproductive toxicity
This information is not available.

Teratogenicity
This information is not available.

CMR effects
Carcinogenicity:
Suspected of causing cancer.

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
Swallowing may result in damage to the following:
Liver, Kidney
Systemic effects:
After absorption of large quantities:
CNS disorders, Drowsiness, Dizziness, drop in blood pressure, Cardiac irregularities, depressed respiration, inebriation, Unconsciousness, narcosis, respiratory paralysis
The following applies to aliphatic halogenated hydrocarbons in general: systemic effect: narcosis, cardiovascular isorders. Toxic effect on liver, kidneys.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity
Toxicity to fish
LC50 Pimephales promelas (fathead minnow): 193 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates
EC0 Protozoa: > 16.000 mg/l(Lit.)

EC50 Daphnia magna (Water flea): 1.682 mg/l; 48 h
DIN 38412

Toxicity to algae
IC50 Pseudokirchneriella subcapitata (green algae): > 660 mg/l; 96 h (IUCLID)

Toxicity to bacteria
EC50 Photobacterium phosphoreum: 2,88 mg/l; 15 min (IUCLID)

12.2 Persistence and degradability
Biodegradability
5 - 26 %; 28 d
OECD Test Guideline 301C
After adaption biodegradable.
Not readily biodegradable.

12.3 Bioaccumulative potential
Partition coefficient: n-octanol/water
log Pow: 1,25
(experimental)
(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil
Distribution among environmental compartments
Adsorption/Soil
log Koc: 1,00
(experimental)
Mobile in soils (Lit.)

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

12.6 Other adverse effects
Henry constant
329 Pa*m³/mol
Method: (experimental)
(Lit.) Distribution preferentially in air.

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 UN number	UN 1593
14.2 Proper shipping name	DICHLOROMETHANE
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	E

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

14.1 UN number	UN 1593
14.2 Proper shipping name	DICHLOROMETHANE
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	no

Sea transport (IMDG)

14.1 UN number	UN 1593
14.2 Proper shipping name	DICHLOROMETHANE
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
EmS	F-A S-A

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

EU regulations

Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply
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 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals	not regulated
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 6.1 D

15.2 Chemical Safety Assessment

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.

H351	Suspected of causing cancer.

Full text of R-phrases referred to under sections 2 and 3

R40	Limited evidence of a carcinogenic effect.

Training advice
Provide adequate information, instruction and training for operators.

Labelling (67/548/EEC or 1999/45/EC)

Symbol(s)	Xn	Harmful
R-phrase(s)	40	Limited evidence of a carcinogenic effect.
S-phrase(s)	3-36/37	Keep in a cool place. Wear suitable protective clothing and gloves.
EC-No.	200-838-9	EC Label

Reduced labelling (≤125 ml)

Symbol(s)	Xn	Harmful
R-phrase(s)	40	Limited evidence of a carcinogenic effect.
S-phrase(s)	24/25-36/37-3	Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. Keep in a cool place.

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.

EXPOSURE SCENARIO 1 (Industrial use)

1. Industrial use (Reagent for analysis)

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

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
PROC15	Use as laboratory reagent

Environmental Release Categories

ERC2	Formulation of preparations
ERC6a	Industrial use resulting in manufacture of another substance (use of intermediates)

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling environmental exposure for: ERC2

Amount used

Daily amount per site (Msafe)	1.898 kg

Environment factors not influenced by risk management

Dilution Factor (River)	10

Other given operational conditions affecting environmental exposure

Number of emission days per year	300
Emission or Release Factor: Air	0 %
Emission or Release Factor: Water	1 %
Emission or Release Factor: Soil	0 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	Municipal sewage treatment plant
Effectiveness (of a measure)	93,5 %

2.2 Contributing scenario controlling environmental exposure for: ERC6a, SpERC ESVOC 2

Amount used

Daily amount per site (Msafe)	8.567 kg

Environment factors not influenced by risk management

Dilution Factor (River)	10

Other given operational conditions affecting environmental exposure

Number of emission days per year	300
Emission or Release Factor: Air	0,05 %
Emission or Release Factor: Water	1 %
Emission or Release Factor: Soil	0 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	Municipal sewage treatment plant
Effectiveness (of a measure)	93,5 %

2.3 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC15

Product characteristics

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	High volatile liquid

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.

Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice	Wear suitable gloves tested to EN374.

3. Exposure estimation and reference to its source

Environment

CS	Use descriptor	Msafe	Compartment	RCR	Exposure Assessment Method
2.1	ERC2	1898 kg/day	All compartments	< 1	EUSES
2.2	ERC6a	8567 kg/day	All compartments	< 1	EUSES

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.3	PROC1	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC2	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC3	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC4	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC5	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC8a	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC8b	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC9	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC10	longterm, combined, systemic	< 1	ECETOC TRA
2.3	PROC15	longterm, combined, systemic	< 1	ECETOC TRA

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.merck-chemicals.com.

EXPOSURE SCENARIO 2 (Professional use)

1. Professional use (Reagent for analysis)

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

2. Contributing scenarios: Operational conditions and risk management measures

2.1 Contributing scenario controlling environmental exposure for: ERC2

Amount used

Daily amount per site (Msafe)	1.898 kg

Environment factors not influenced by risk management

Dilution Factor (River)	10

Other given operational conditions affecting environmental exposure

Number of emission days per year	300
Emission or Release Factor: Air	0 %
Emission or Release Factor: Water	1 %
Emission or Release Factor: Soil	0 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	Municipal sewage treatment plant
Effectiveness (of a measure)	93,5 %

2.2 Contributing scenario controlling environmental exposure for: ERC6a, SpERC ESVOC 2

Amount used

Daily amount per site (Msafe)	8.567 kg

Environment factors not influenced by risk management

Dilution Factor (River)	10

Other given operational conditions affecting environmental exposure

Number of emission days per year	300
Emission or Release Factor: Air	0,05 %
Emission or Release Factor: Water	1 %
Emission or Release Factor: Soil	0 %

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	Municipal sewage treatment plant
Effectiveness (of a measure)	93,5 %

2.3 Contributing scenario controlling worker exposure for: PROC15

Product characteristics

Concentration of the Substance in Mixture/Article	Covers the percentage of the substance in the product up to 100 %.
Physical Form (at time of use)	High volatile liquid

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.

Additional good practice advice beyond the REACH Chemical Safety Assessment

Additional good practice advice	Wear suitable gloves tested to EN374.

3. Exposure estimation and reference to its source

Environment

CS	Use descriptor	Msafe	Compartment	RCR	Exposure Assessment Method
2.1	ERC2	1898 kg/day	All compartments	< 1	EUSES
2.2	ERC6a	8567 kg/day	All compartments	< 1	EUSES

Workers

CS	Use descriptor	Exposure duration, route, effect	RCR	Exposure Assessment Method
2.3	PROC15	longterm, combined, systemic	< 1	ECETOC TRA

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).

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