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

1.1. Product identifier

Commercial Product Name : Methanol
 EC No : 200-659-6
 CAS No. : 67-56-1
 REACH Registration Number : 01-2119433307-44-0031 (EU) ; 01-2119433307-44-0030 (UK)

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

Specific use(s) : Solvent
 Industrial

1.3. Details of the supplier of the safety data sheet

Company : Methanex Europe S.A.
 Waterloo Office Park - Building N - Drève Richelle 161 - box 31
 B-1410 -Waterloo , BELGIUM
 Tel. (32) 2 352 03 70
 Fax: (32) 2 352 06 99

1.4. Emergency telephone number

Emergency telephone : +32 3 575 55 55 (24h/7d)
 International SGS Emergency Response Number

UNITED KINGDOM
 National Poisons Information Service
 (Birmingham Centre) 0870 600 6266 (UK only)
 City Hospital

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Directive 1272/2008/EEC.

Acute Tox. 3 (Inhalation:vapour) H331
 Acute Tox. 3 (Dermal) H311
 Acute Tox. 3 (Oral) H301
 STOT SE 1 H370
 Flam. Liq. 2 H225


Full text of H-phrases: see section 16.

2.1.2. Classification according to EU Directives 67/548/EC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.

F; R11
 T; R23/24/25
 T; R39/23/24/25

Full text of R-phrases: see section 16.

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2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

CLP pictograms :



Signal word :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H331 - Toxic if inhaled.
H370 - Causes damage to organs.

Precautionary statements (CLP) :

P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P307+P311 - IF exposed: Call a POISON CENTER or doctor/ physician.
P405 - Store locked up.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards which do not result in classification

: Results of PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients


3.1. Substances

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
methanol	(CAS No.) 67-56-1 (EC No) 200-659-6 (EC Index) 603-001-00-X	<= 99,85	F; R11 T; R23/24/25-39/23/24/25
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methanol	(CAS No.) 67-56-1 (EC No) 200-659-6 (EC Index) 603-001-00-X	<= 99,85	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370

Full text of R-, H- and EUH-phrases: see section 16.

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First aid measures	: Immediate medical attention is required.
Inhalation	: Keep at rest. Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
Skin contact	: After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Obtain medical attention.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Ingestion	: Drink plenty of water. Call a physician immediately.
Additional advice	: Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: Toxic by inhalation. Possible effects include headache, dizziness, cramp, unconsciousness and death. Nausea. Vomiting. Blindness. Toxic: danger of very serious irreversible effects through inhalation.
Skin contact	: Toxic in contact with skin. Toxic: danger of very serious irreversible effects in contact with skin.
Eye contact	: May be irritating.
Ingestion	: Toxic if swallowed. Possible effects include headache, dizziness, cramp, unconsciousness and death. nausea. Vomiting. Blindness. Toxic: danger of very serious irreversible effects if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Contact a poison control centre.


SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray or alcohol resistant foam.
Extinguishing media which shall not be used for safety reasons	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire Hazard	: Highly flammable.
Specific hazards	: Vapours may form explosive mixtures with air. Evacuate personnel to safe areas. Burning produces noxious and toxic fumes. Possible decomposition products are: Formaldehyde Carbon oxides Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. The pressure in sealed containers can increase under the influence of heat. Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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5.3. Advice for firefighters

Advice for firefighters : Wear personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel : Wear personal protective equipment. See also section 8. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Ensure all equipment is electrically grounded before beginning transfer operations. Do not smoke.

Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Remove all sources of ignition. Do not use sparking tools. Prevent further leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

6.4. Reference to other sections

See also section 8. See also section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling : Wear personal protective equipment. See also section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Do not burn, or use a cutting torch on, the empty drum. Ensure all equipment is electrically grounded before beginning transfer operations. Always replace cap after use. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Ensure adequate ventilation. Do not puncture or incinerate. Use only explosion-proof equipment.


Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Eye wash bottle with pure water Use only in an area equipped with a safety shower. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Do not store near or with any of the incompatible materials listed in section 10. Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	:	
Component	:	methanol (67-56-1)
TLV-TWA (ppm)	:	200 (PT, FR, GB, DE, BE, SE, ES, DK, FI, CH); 100 (NL, NO)
TLV-TWA (mg/m ³)	:	260 (DK, LV, LU, SK, SI, CH, FR, AT, LT, EL, HU, HR, EE); 266 (BE, ES, GB); 50 (BU); 250 (SE, CZ); 270 (DE, FI); 100 (PL); 130 (NO); 133 (NL)
TLV-STEL (ppm)	:	250 (PT, GB, BE, SE, FI); 1000 (FR); 800 (CH)
TLV-STEL (mg/m ³)	:	325 (EL) ; 330 (FI) ; 333 (BE, GB); 350 (SE, EE); 1040 (CH, AT); 1000 (CZ); 1300 (FR); 300 (PL) ; 1040 (HU); 1080 (DE)
DNEL	:	40 mg/kg bw/day Dermal exposure 260 mg/m ³ Inhalation exposure Workers 8 mg/kg bw/day Dermal exposure 50 mg/m ³ Inhalation exposure Consumers
PNEC	:	570,4 mg/kg Sediment 23,5 mg/kg Soil 100 mg/l STP 154 mg/l Fresh water 15,4 mg/l Marine water


8.2. Exposure controls

Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a half face mask (EN 140) Respirator with a full face mask (EN 136) Recommended Filter type: (A - EN 141)
Hand protection	:	Nitrile rubber, Polyvinyl alcohol, Neoprene gloves . (EN374) The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	:	Safety glasses with side-shields, Goggles . (EN 166)
Skin and body protection	:	Overalls, apron and boots recommended.
Engineering measures	:	Ensure adequate ventilation. Use with local exhaust ventilation.
Environmental exposure controls	:	Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
pH	:	No data available
Melting point/range	:	-97,8 °C
Boiling point/boiling range	:	64,7 °C

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Flash point	: 11 °C (1013 hPa)
Evaporation rate	: No data available
Vapour pressure	: 169,27 hPa (25 °C)
Vapour density	: No data available
Density	: ca 0,792 g/cm ³ (20 °C)
Relative density	: 0,79- 0,8
Water solubility	: Miscible
Partition coefficient: n-octanol/water	: -0,77
Autoignition temperature	: 455 °C (1013 hPa)
Decomposition temperature	: Not applicable
Viscosity	: 0,544- 0,59 (25 °C)
Explosive properties	: not applicable
Oxidizing properties	: Not applicable

9.2. Other information

Molecular Weight : 32

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : Flammable liquid, See also section 10.5

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : no data available

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials : Incompatible with strong acids and oxidizing agents.

10.6. Hazardous decomposition products


Hazardous decomposition products : Burning produces noxious and toxic fumes. Carbon oxides Formaldehyde

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.

methanol (67-56-1)	
LD50/oral/rat	1187- 2769 mg/kg

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methanol (67-56-1)	
LD50/dermal/rabbit	17000 mg/kg
LC50/inhalation/4h/rat	128,2 mg/l/4h

Skin corrosion/irritation	: Not classified (Not classified due to data which are conclusive although insufficient for classification.) pH: No data available
Serious eye damage/irritation	: Not classified (Not classified due to data which are conclusive although insufficient for classification.) pH: No data available
Respiratory or skin sensitisation	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Germ cell mutagenicity	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Carcinogenicity	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Reproductive toxicity	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated exposure)	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)
Aspiration hazard	: Not classified (Not classified due to data which are conclusive although insufficient for classification.)

Further information

Symptoms related to the physical, chemical and toxicological characteristics, See section 4.2.

SECTION 12: Ecological information

12.1. Toxicity


Component	: methanol (67-56-1)
LC50/96h/fish	: 15400 -29400 mg/l
EC50/48h/daphnia	: > 10000 mg/l
IC50/72h/algae	: ca. 22000 mg/l <i>Selenastrum carpicornutum</i> (<i>Pseudokichnerela subcapitata</i>)

12.2. Persistence and degradability

Persistence and degradability : Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation : Does not bioaccumulate
Partition coefficient: n-octanol/water : -0,77

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12.4. Mobility in soil

Mobility : Mobile in soils

12.5. Results of PBT and vPvB assessment

PBT/vPvB : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Further information : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products : Dispose of in accordance with local regulations.
 Contaminated packaging :
 Additional ecological information : Do not flush into surface water or sanitary sewer system.
 Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions: 07 01 04* - other organic solvents, washing liquids and mother liquors 15 01 10* - packaging containing residues of or contaminated by dangerous substances Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

14.1. UN number

UN-No. : 1230

14.2. UN proper shipping name

Proper shipping name : Methanol
 Proper shipping name IATA/IMDG : Methanol

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class : 3 - Flammable liquid
 Hazard identification number (Kemler No.) : 336
 Classification code : FT1
 ADR/RID-Labels : 3 - Flammable liquid
 6.1 - Toxic substance




14.3.2. Inland waterway transport (ADN/ADNR)

Class (ADNR) : 3

14.3.3. Transport by sea

Class : 3 - Flammable liquids

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14.3.4. Air transport

Class : 3 - Flammable liquids
Subsidiary Class : 6.1

14.4. Packing group

Packing group : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Authorisations/Restrictions on use : not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

: none

15.1.2. National regulations

WGK : 1


15.2. Chemical safety assessment

Chemical Safety Assessment : A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases

Acute Tox. 3 (Dermal) : Acute toxicity (dermal) Category 3
 Acute Tox. 3 (Inhalation:vapour) : Acute toxicity (inhalation) Category 3
 Acute Tox. 3 (Oral) : Acute toxicity Category 3
 Flam. Liq. 2 : Flammable liquids Category 2
 STOT SE 1 : Specific target organ toxicity (single exposure) Category 1
 H225 : Highly flammable liquid and vapour.
 H301 : Toxic if swallowed.
 H311 : Toxic in contact with skin.
 H331 : Toxic if inhaled.
 H370 : Causes damage to organs.
 R11 : Highly flammable.
 R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
 R39/23/24/25 : Toxic: danger of very serious irreversible effects through inhalation, in contact with skin

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and if swallowed.

Sources of key data used to compile the datasheet : <http://ecb.jrc.it>


Safety datasheet sections which have been updated: : 8

Abbreviations and acronyms :

- CSR = Chemical Safety Report
- DNEL = Derived No Effect Level
- LD50 = Median lethal dose
- N.O.S. = Not Otherwise Specified
- PNEC = Predicted No Effect Concentration
- STEL = Short term exposure limit
- TLV = Threshold limits
- TWA = time weighted average
- ADNR = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
- ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
- CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods Code
- LEL = Lower Explosive Limit/Lower Explosion Limit
- UEL = Upper Explosion Limit/Upper Explosive Limit
- REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals


The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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ANNEX : Exposure Scenario

Number	Short description of exposure scenario	Product category	Life cycle stage covered by the ES					Sector of use	Process category	Article category	Environmental release category
			Manufacture	Formulation	End Use						
					Industrial use	Professional use	Consumer use				
1	Manufacture of the substance/Use as an intermediate/Use as a process chemical	-	X	-	X	-	-	3, 8, 9	1, 2, 3, 4, 8a, 8b, 15	-	ERC 1, 4, 6a, 6b
2	Distribution of the substance	-	X	-	X	-	-	3, 8, 9	1, 2, 3, 4, 8a, 8b, 9	-	ERC 1, 2
3	Formulation and (re)packing of substance and mixtures	-	-	X	X	-	-	3, 10	1,2,3,4,8a, 8b, 9, 15	-	ERC 2
4	Use as a fuel in industrial settings	-	-	-	X	-	-	3	1, 2, 3, 8a, 8b, 16, 19	-	ERC 8b
5	Use as a fuel in professional settings	-	-	-	-	X	-	22	1, 2, 3, 8a, 8b, 16, 19	-	ERC 8b, 8e
6	Industrial use in cleaning agents	-	-	-	X	-	-	3	1, 2, 3, 4, 7, 8a, 8b, 10, 13	-	ERC 4
7	Professional use in cleaning agents	-	-	-	-	X	-	22	1, 2, 3, 4, 8a, 8b, 10, 11, 13	-	ERC 8a, 8d
8	Use as a laboratory reagent in industrial settings	-	-	-	X	-	-	3	10, 15	-	ERC 4
9	Use as a laboratory reagent in professional settings	-	-	-	-	X	-	22	10, 15	-	ERC 8a
10	Industrial use as wastewater treatment chemical	-	-	-	X	-	-	3	2	-	ERC 9b
11	Professional use in oilfield drilling and production operations	-	-	-	-	X	-	22	4, 5, 8a, 8b	-	ERC 9b
12	Consumer use of cleaning agents and de-icers (liquid products)	4, 35	-	-	-	-	X	21	-	-	ERC 8a, 8d
13	Consumer use of cleaning agents and de-icers (spray products)	4, 35	-	-	-	-	X	21	-	-	ERC 8a, 8d
14a	Consumer use of fuels indoors (Domestic/hobby use e.g in model engines, fuel cells, fondue sets)	13	-	-	-	-	X	21	-	-	ERC 8b
14b	Consumer use of fuels outdoors (gasoline additive)	-	-	-	-	-	X	21	PROC 16	-	ERC 8e


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Exposure Scenario 1


1. Exposure scenario	
Title	Manufacture of the substance/Use as an intermediate/Use as an process chemical
Sector of use	SU3 - Industrial Manufacturing (all) SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals
Process category	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 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 PROC15 - Use as laboratory reagent
Product category	
Article category	
Environmental release category	ERC1 - Manufacture of substances 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)
Processes, tasks, activities covered	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2,3&4	
Frequency and duration of use	
Exposure duration per day	> 4 h/d
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1 & 3) Palms of both hands (480 cm ²) (PROC 2 & 4)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no (PROC 1 & 3) yes Effectiveness : 90% (PROC 2 & 4)

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Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 8a & 8b	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 8a)
	Palms of both hands (480 cm ²) (PROC 8b)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90% (PROC 8a)
	yes Effectiveness : 97% (PROC 8b)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.3. Control of worker exposure : PROC 15	
Frequency and duration of use	
Exposure duration per day	> 4 h/d
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	


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Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	


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Exposure Scenario 2

1. Exposure scenario	
Title	Distribution of the substance
Sector of use	SU3 - Industrial Manufacturing (all) SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals
Process category	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 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)
Environmental release category	ERC1 - Manufacture of substances ERC2 - Formulation of preparations
Processes, tasks, activities covered	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its distribution and associated laboratory activities
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2,3&4	
Frequency and duration of use	
Exposure duration per day	> 4 h/d
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1&3) Palms of both hands (480 cm ²) (PROC 2&4)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no (PROC 1) yes Effectiveness : 90% (PROC 2,3 & 4)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 8a, 8b & 9	
Frequency and duration of use	


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Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b&9) Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90% (PROC 8a & 9) yes Effectiveness : 97% (PROC 8b)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	

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Exposure Scenario 3

1. Exposure scenario	
Title	Formulation and (re)packing of substance and mixtures
Sector of use	SU3 - Industrial Manufacturing (all) SU 10 - Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)
Process category	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 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) PROC15 - Use as laboratory reagent
Product category	
Article category	
Environmental release category	ERC2 - Formulation of preparations
Processes, tasks, activities covered	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, maintenance and associated laboratory activities
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2,3&4	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1 & 3) Palms of both hands (480 cm ²) (PROC 2 & 4)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no (PROC 1) yes, Effectiveness : 90% (PROC 2,3 & 4)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required

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2.1.2. Control of worker exposure : PROC 8a, 8b & 9

Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b&9)
	Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90% (PROC 8a & 9)
	yes Effectiveness : 97% (PROC 8b)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required


2.1.3. Control of worker exposure : PROC 15

Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required

2.2. Control of environmental exposure

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not required
Human factors not influenced by risk management
Product characteristics
Other operational conditions affecting workers exposure
not required
Technical conditions and measures at process level to prevent release
not required
Technical conditions and measures to control dispersion from the source towards the worker
not required
Organisational measures to prevent /limit releases, dispersion and exposure
not required
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required


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Exposure Scenario 4


1. Exposure scenario	
Title	Use as a fuel in industrial settings
Sector of use	SU3 - Industrial Manufacturing (all)
Process category	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) 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 PROC16 - Using material as fuel sources, limited exposure to unburned product to be expected PROC19 - Hand-mixing with intimate contact and only PPE available
Product category	
Article category	
Environmental release category	ERC8b - Wide dispersive indoor use of reactive substances in open systems
Processes, tasks, activities covered	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2 & 3	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1 & 3) Palms of both hands (480 cm ²) (PROC 2)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no (PROC 1) yes Effectiveness : 90% (PROC 2 & 3)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 8a & 8b	
Frequency and duration of use	
Exposure duration per day	> 4h

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Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b)
	Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90% (PROC 8a)
	yes Effectiveness : 97% (PROC 8b)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.3. Control of worker exposure : PROC 16	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.4. Control of worker exposure : PROC 19	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y


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Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	both hands and forearms (1980 cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
Protective gloves	yes
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	


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Exposure Scenario 5


1. Exposure scenario	
Title	Use as a fuel in professional settings
Sector of use	SU22 - Public domain (administration, education, entertainment, services, craftsmen)
Process category	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) 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 PROC16 - Using material as fuel sources, limited exposure to unburned product to be expected PROC19 - Hand-mixing with intimate contact and only PPE available
Product category	
Article category	
Environmental release category	ERC8b - Wide dispersive indoor use of reactive substances in open systems ERC8e - Wide dispersive outdoor use of reactive substances in open systems
Processes, tasks, activities covered	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2 & 3	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1&3) Palms of both hands (480 cm ²) (PROC 2)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no (PROC 1) yes Effectiveness : 80% (PROC 2 & 3)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 8a & 8b	
Frequency and duration of use	
Exposure duration per day	> 4h

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Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	> 5%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b)
	Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.3. Control of worker exposure : PROC 16	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.4. Control of worker exposure : PROC 19	
Frequency and duration of use	
Exposure duration per day	1 - 4h
Frequency of exposure	< 240 d/y
Product characteristics	


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Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 10 %
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	both hands and forearms (1980 cm ²)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
Protective gloves	yes
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	


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Exposure Scenario 6


1. Exposure scenario	
Title	Industrial use in cleaning agents
Sector of use	SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category	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 PROC7 - Industrial spraying PROC8a - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC10 - Roller application or brushing PROC13 - Treatment of articles by dipping and pouring
Product category	
Article category	
Environmental release category	ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
Processes, tasks, activities covered	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2,3 & 4	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1&3) Palms of both hands (480 cm ²) (PROC 2&4)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no (PROC 1)
	yes Effectiveness : 90% (PROC 2,3 & 4)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	

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Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 7	
Frequency and duration of use	
Exposure duration per day	8h
Frequency of exposure	4-5 d/w
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	> 5%
Amount used	Not relevant in the Stoffenmanager
Human factors not influenced by risk management	
Not relevant in the Stoffenmanager	
Other operational conditions affecting workers exposure	
Indoor/Outdoor	Indoor use
Room Volume	> 1000m ³
Work within one meter of the source :	no
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
segregation	Worker is not within one meter of the source
immision controls	Work in a spray cabin without specific ventilation system
Organisational measures to prevent /limit releases, dispersion and exposure	
Regular cleaning of equipment, work area and clothing.	yes
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.3. Control of worker exposure : PROC 8a & 8b	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b) Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90% (PROC 8a) yes Effectiveness : 97% (PROC 8b)

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Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.4. Control of worker exposure : PROC 10	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	80%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Both hands (960cm ²)
Other operational conditions affecting workers exposure	
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.5. Control of worker exposure : PROC 13	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 10 %
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	
Other operational conditions affecting workers exposure	
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	


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not required
Human factors not influenced by risk management
not required
Other operational conditions affecting workers exposure
not required
Technical conditions and measures at process level to prevent release
not required
Technical conditions and measures to control dispersion from the source towards the worker
not required
Organisational measures to prevent /limit releases, dispersion and exposure
not required
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required


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Exposure Scenario 7


1. Exposure scenario	
Title	Professional use in cleaning agents
Sector of use	SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals SU 10 - Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)
Process category	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 PROC8a - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b - Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC10 - Roller application or brushing PROC11 - Non industrial spraying PROC13 - Treatment of articles by dipping and pouring
Product category	
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8d - Wide dispersive outdoor use of processing aids in open systems
Processes, tasks, activities covered	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 1,2,3 & 4	
Frequency and duration of use	
Exposure duration per day	>4h (PROC 1,2,3) 1-4h (PROC 4)
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	
	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²) (PROC 1 & 3) Palms of both hands (480 cm ²) (PROC 2&4)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
	none
Technical conditions and measures to control dispersion from the source towards the worker	

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Local exhaust	no (PROC 1)
	yes Effectiveness : 80% (PROC 2,3&4)
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 8a & 8b	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	> 5%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b)
	Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.3. Control of worker exposure : PROC 10	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 5%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Both hands (960cm ²)
Other operational conditions affecting workers exposure	
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	

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Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.3. Control of worker exposure : PROC 11	
Frequency and duration of use	
Exposure duration per day	200' Value taken from Riskofderm; not relevant in the Stoffenmanager
Frequency of exposure	1-4 d/w
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 3%
Amount used	Flow rate : 5l/min application rate
Human factors not influenced by risk management	
Dermal exposure	Both hands (960cm ²)
Other operational conditions affecting workers exposure	
Indoor/Outdoor	Indoor use
Room Volume	100-1000m ³
Technical conditions and measures at process level to prevent release	
segragation	Worker is not within one meter of the source
Technical conditions and measures to control dispersion from the source towards the worker	
Spraying process	Level or downward
Direction of airflow that comes from the source	away from the worker
Distance of worker from the source	more than one meter
Organisational measures to prevent /limit releases, dispersion and exposure	
Regular cleaning of equipment, work area and clothing.	yes
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
Protective gloves	yes Effectiveness : 90%
2.1.4. Control of worker exposure : PROC 13	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²)
Other operational conditions affecting workers exposure	
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 80%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	


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Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	


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Exposure Scenario 8

1. Exposure scenario	
Title	Use as a laboratory reagent in industrial settings
Sector of use	SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category	PROC10 - Roller application or brushing PROC15 - Use as laboratory reagent
Product category	
Article category	
Environmental release category	ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
Processes, tasks, activities covered	Use of the substance within laboratory settings, including material transfers and equipment cleaning
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 10	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	80%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Both hands (960cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 15	
Frequency and duration of use	
Exposure duration per day	>4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable

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Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	

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Exposure Scenario 9

1. Exposure scenario	
Title	Use as a laboratory reagent in professional settings
Sector of use	SU22 - Public domain (administration, education, entertainment, services, craftsmen)
Process category	PROC10 - Roller application or brushing PROC15 - Use as laboratory reagent
Product category	
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems
Processes, tasks, activities covered	Use of small quantities within laboratory settings, including material transfers and equipment cleaning
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 10	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 5%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Both hands (960cm ²)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 15	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance



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Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palm of one hand (240cm ²)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 80%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	
3. Exposure estimation and reference to its source	
3.1. Health	
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated	
3.2. Environment	
not required	
4. Guidance to check compliance with the Exposure Scenario	
4.1. Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	
4.2. Environment	
not required	


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Exposure Scenario 10

1. Exposure scenario	
Title	Industrial use as wastewater treatment chemical
Sector of use	SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category	PROC2 - Use in closed, continuous process with occasional controlled exposure
Product category	
Article category	
Environmental release category	ERC9b - Wide dispersive outdoor use of substances in closed systems
Processes, tasks, activities covered	
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 2	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²)
Other operational conditions affecting workers exposure	
Use	Industrial use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 90%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	
Organisational measures to prevent /limit releases, dispersion and exposure	
not required	
Conditions and measures related to personal protection, hygiene and health evaluation	
not required	

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3. Exposure estimation and reference to its source
3.1 Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required


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Exposure Scenario 11


1. Exposure scenario	
Title	Professional use in oilfield drilling and production operations
Sector of use	SU22 - Public domain (administration, education, entertainment, services, craftsmen)
Process category	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
Product category	
Article category	
Environmental release category	ERC9b - Wide dispersive outdoor use of substances in closed systems
Processes, tasks, activities covered	Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of worker exposure : PROC 4	
Frequency and duration of use	
Exposure duration per day	1-4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	yes Effectiveness : 80%
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 5	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid

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Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 5%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.1.2. Control of worker exposure : PROC 8a & 8b	
Frequency and duration of use	
Exposure duration per day	> 4h
Frequency of exposure	< 240 d/y
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 5%
Amount used	Not relevant
Human factors not influenced by risk management	
Dermal exposure	Palms of both hands (480 cm ²) (PROC 8b) Both hands (960cm ²) (PROC 8a)
Other operational conditions affecting workers exposure	
Use	Professional use
Indoor/Outdoor	Indoor use
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
Local exhaust	no
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	


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not required
Organisational measures to prevent /limit releases, dispersion and exposure
Other operational conditions affecting workers exposure
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required


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Exposure Scenario 12

1. Exposure scenario	
Title	Consumer use of cleaning agents and de-icers (liquid products)
Sector of use	SU 21 - Consumer uses: Private households (= general public = consumers)
Process category	
Product category	PC4 - Anti-Freeze and de-icing products
	PC35 - Washing and cleaning products (including solvent based products)
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8d - Wide dispersive outdoor use of processing aids in open systems
Processes, tasks, activities covered	Application of cleaning agents and de-icers as liquid non-spray products.
Exposure Assessment Method	ConsExpo (v4.1)
2. Operational conditions and risk management measures	
2.1. Control of consumer exposure	
2.1.1. Control of consumer exposure	
Frequency and duration of use	
Exposure duration per day	240' (ConsExpo Default)
Frequency of exposure	104 d/y (ConsExpo Default)
Application duration	20' (ConsExpo Default)
Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	Pure substance
Molecular Weight	18g/mol (ConsExpo Default)
Mass transfer rate	0,413 m/min (Thibodauxs's method)
Amount used	Maximum applied quantity per task : 100 g
Human factors not influenced by risk management	
Dermal exposure	1900 cm ²
Inhalation Rate	24,1 l/min
Other given operational conditions affecting consumers exposure	
Room Volume	58 m ³
Ventilation Rate	0,5 l/h
Release Area	5 m ²
Conditions and measures related to information and behavioural advice to consumers	
none	
Conditions and measures related to personal protection, hygiene and health evaluation	
none	
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	
Technical conditions and measures to control dispersion from the source towards the worker	
not required	


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Organisational measures to prevent /limit releases, dispersion and exposure
not required
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required


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Exposure Scenario 13

1. Exposure scenario	
Title	Consumer use of cleaning agents and de-icers (spray products)
Sector of use	SU 21 - Consumer uses: Private households (= general public = consumers)
Process category	
Product category	PC4 - Anti-Freeze and de-icing products
	PC35 - Washing and cleaning products (including solvent based products)
Article category	
Environmental release category	ERC8a - Wide dispersive indoor use of processing aids in open systems ERC8d - Wide dispersive outdoor use of processing aids in open systems
Processes, tasks, activities covered	Application of cleaning agents and de-icers as liquid non-spray products.
Exposure Assessment Method	ConsExpo (v4.1)
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of consumer exposure	
Frequency and duration of use	
Exposure duration per day	60' (ConsExpo Default)
Frequency of exposure	365 d/y (ConsExpo Default)
Application duration	10' (ConsExpo Default)
Duration of the activity: Spraying	0,41' (ConsExpo Default)
Product characteristics: Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	< 5%
Molecular Weight	22 g/mol (ConsExpo Default)
Mass transfer rate	0,413 m/min (Thibodauxs's method)
Amount used	Maximum applied quantity per task : 16,2 g
Human factors not influenced by risk management	
Dermal exposure	
<i>Use by spraying</i>	Both hands (960cm ²)
<i>Cleaning techniques</i>	Palm of one hand (240cm ²)
Inhalation Rate	24,1 l/min
Other given operational conditions affecting consumers exposure	
Room Volume	15 m ³
Room Height	2,5 m
Ventilation Rate	2,5 l/h
Release Area	1,71 m ²
Conditions and measures related to information and behavioural advice to consumers	
Spraying away from exposed person	
Conditions and measures related to personal protection, hygiene and health evaluation	
none	
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	


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Technical conditions and measures at process level to prevent release
not required
Technical conditions and measures to control dispersion from the source towards the worker
not required
Organisational measures to prevent /limit releases, dispersion and exposure
not required
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required


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Exposure Scenario 14a

1. Exposure scenario	
Title	Consumer use of fuels indoors (Domestic/hobby use e.g in model engines, fuel cells, fondue sets)
Sector of use	SU 21 - Consumer uses: Private households (= general public = consumers)
Process category	
Product category	PC13 - Fuels
Article category	
Environmental release category	
Processes, tasks, activities covered	
Exposure Assessment Method	ConsExpo (v4.1)
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of consumer exposure	
Frequency and duration of use	
Exposure duration per day	10' (ConsExpo Default)
Frequency of exposure	2 d/y (ConsExpo Default)
Application duration	10' (ConsExpo Default)
Product characteristics: Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	0,80
Molecular Weight	100 g/mol (ConsExpo Default)
Mass transfer rate	0,413 m/min (Thibodauxs's method)
Amount used	Maximum applied quantity per task : 800 g
Human factors not influenced by risk management	
Dermal exposure	
<i>Use by spraying</i>	Both hands (960cm ²)
<i>Cleaning techniques</i>	Palm of one hand (240cm ²)
Inhalation Rate	34,7 m ³ /d
Other given operational conditions affecting consumers exposure	
Room Volume	20 m ³
Ventilation Rate	0,5 l/h
Release Area	2 cm ²
Conditions and measures related to information and behavioural advice to consumers	
none	
Conditions and measures related to personal protection, hygiene and health evaluation	
none	
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	


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not required
Technical conditions and measures at process level to prevent release
not required
Technical conditions and measures to control dispersion from the source towards the worker
not required
Organisational measures to prevent /limit releases, dispersion and exposure
not required
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required

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Exposure Scenario 14b

1. Exposure scenario	
Title	Consumer use of fuels outdoors (gasoline additive)
Sector of use	SU 21 - Consumer uses: Private households (= general public = consumers)
Process category	PROC16 - Using material as fuel sources, limited exposure to unburned product to be expected
Product category	
Article category	
Environmental release category	
Processes, tasks, activities covered	Filling up cars and other vehicles at petrol stations
Exposure Assessment Method	ECETOC TRA
2. Operational conditions and risk management measures	
2.1. Control of worker exposure	
2.1.1. Control of consumer exposure	
Frequency and duration of use	
Exposure duration per day	<15' (ConsExpo Default)
Frequency of exposure	<240 d/y (ConsExpo Default)
Application duration	10' (ConsExpo Default)
Product characteristics: Product characteristics	
Physical Form (at time of use)	Liquid
Vapour pressure	169,27 hPa
Dustiness	not applicable
Concentration of the Substance in Mixture/Article	1,00
Amount used	
Human factors not influenced by risk management	
Cleaning techniques	Both hands (960cm ²)
Other given operational conditions affecting consumers exposure	
Use	Professional use
Indoor/Outdoor	Outdoor use
Conditions and measures related to information and behavioural advice to consumers	
none	
Technical conditions and measures at process level to prevent release	
none	
Technical conditions and measures to control dispersion from the source towards the worker	
none	
Organisational measures to prevent /limit releases, dispersion and exposure	
Not relevant (ECETOC TRA)	
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
Conditions and measures related to personal protection, hygiene and health evaluation	
Respiratory protection	Not required
2.2. Control of environmental exposure	
not required	
Human factors not influenced by risk management	
not required	
Other operational conditions affecting workers exposure	
not required	
Technical conditions and measures at process level to prevent release	
not required	

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Technical conditions and measures to control dispersion from the source towards the worker
not required
Organisational measures to prevent /limit releases, dispersion and exposure
not required
Conditions and measures related to personal protection, hygiene and health evaluation
not required
3. Exposure estimation and reference to its source
3.1. Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated
3.2. Environment
not required
4. Guidance to check compliance with the Exposure Scenario
4.1. Health
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
4.2. Environment
not required