

# Guide to Europe's new Safety Data Sheets

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#### Safety Data Sheet Chapters

- Identification of the Substance/Mixture and of the Company/Undertaking
- 2. Hazards Identification
- 3. Composition/Information on ingredients
- 4. First Aid Measures
- 5. Fire Fighting Measures
- 6. Accidental Release Measures
- 7. Handling and Storage
- 8. Exposure Controls/Personal Protection
- 9. Physical and Chemical Properties
- 10. Stability and Reactivity
- 11. Toxicological Information
- 12. Ecological Information
- 13. Disposal Considerations
- 14. Transport Information
- 15. Regulatory Information
- 16. Other Information
- Exposure Scenarios Annex
- : Major changes
- : Minor changes

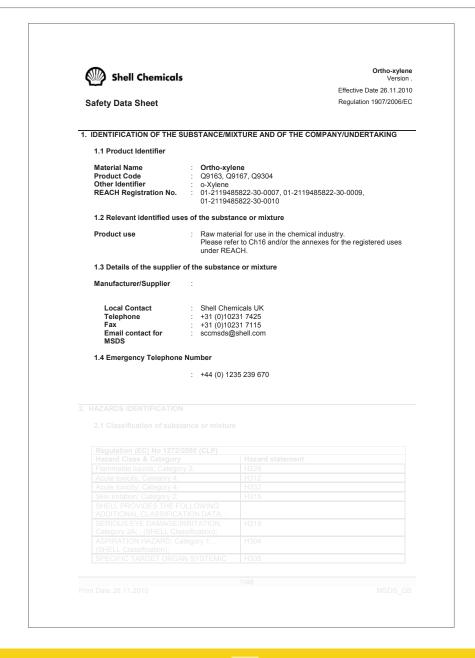
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You can navigate the Safety Data Sheet Guide by using the menu on the left. You can jump back to this menu page at any time by clicking the "Back to Menu" button in the bottom left hand corner in the chapter sections.

Alternatively, if you wish to view the whole slide pack, you can navigate page-by-page, using the arrow buttons in the bottom right hand corner.

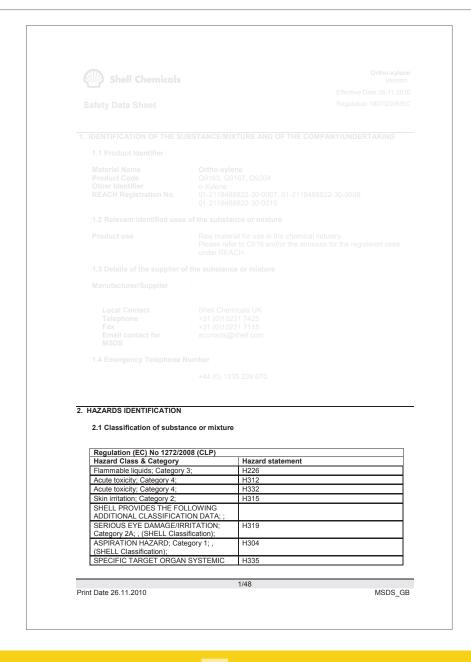
In each chapter, you can roll over the yellow squares for new sections added, and green squares for details of what has been modified.

#### Chapter 1: Identification of the Substance/Mixture and of the Company/Undertaking



### Chapter 2: Hazards Identification

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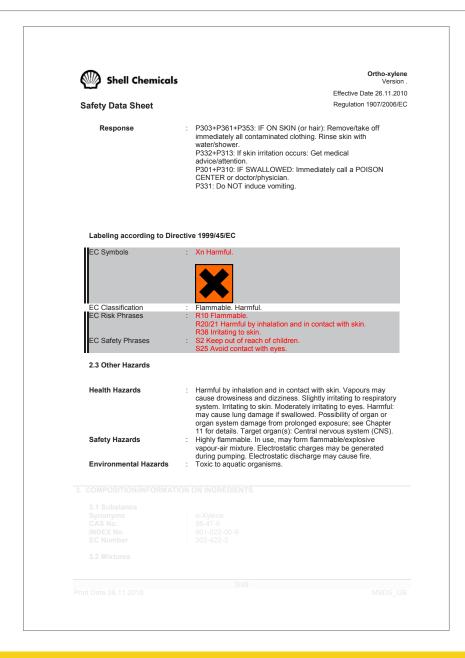
## Chapter 2: Hazards Identification

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## Chapter 2: Hazards Identification

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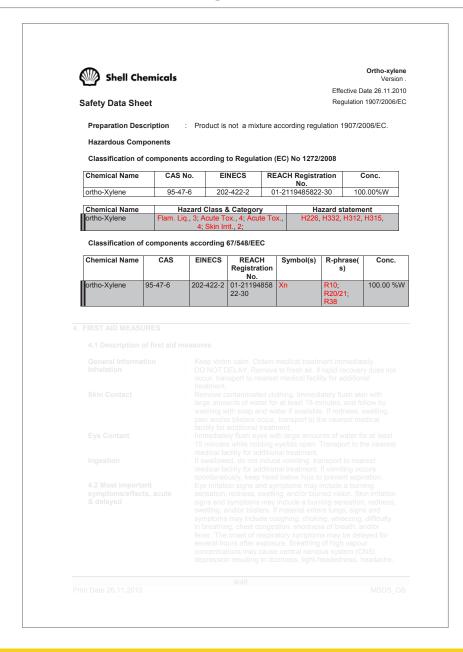


### Chapter 3: Composition/Information on Ingredients

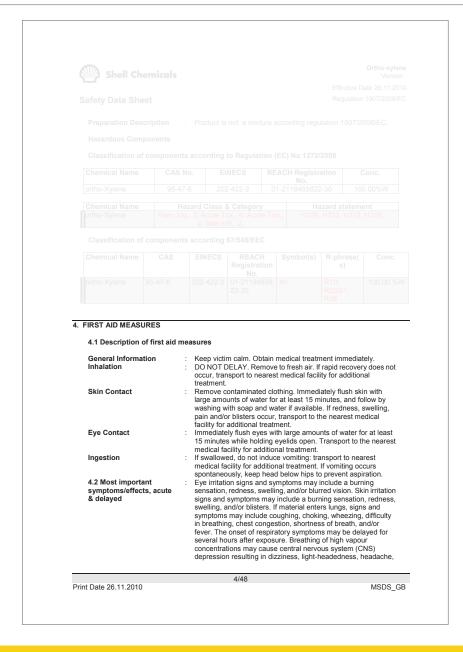


### Chapter 3: Composition/Information on Ingredients

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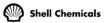


### Chapter 4: First Aid Measures



#### Chapter 4: First Aid Measures

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4.3 Indication of immediate medical attention and special treatment needed

nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Potential for chemical pneumonitis. Potential for cardiac

 Potential for chemical pneumonitis. Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider: oxygen therapy. Call a doctor or poison control center for guidance.

#### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel

5.1 Extinguishing Media

- : Foam, water spray or fog. Dry chemical powder, carbon dioxid
- sand or earth may be used for small fires onl

Media

- 5.2 Special hazards arising from substance or
- : The vapour is heavier than air, spreads along the ground and distant ignition is possible. Will float and can be reignited on surface water. Carbon monoxide may be evolved if incomplet
- 5.3 Advice for fire-fighters
- Wear full protective clothing and self-contained breathin apparatus.
- Additional Information
- : Keep adjacent containers cool by spraying with water

#### . ACCIDENTAL RELEASE MEASURES

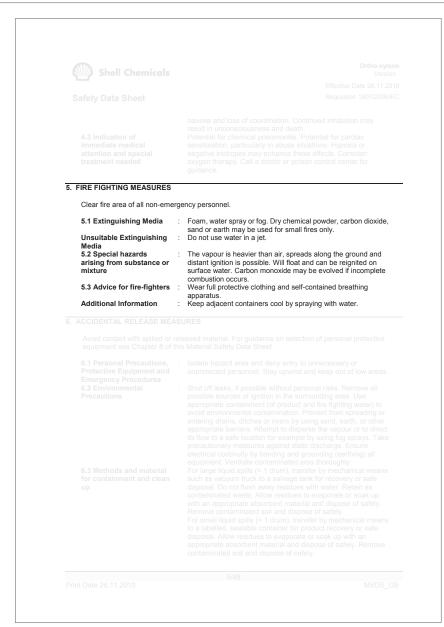
Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet.

- 6.1 Personal Precautions
  Protective Equipment an
  Emergency Procedures
  6.2 Environmental
- : Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low area
- Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering forains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Verilliate contaminated area thoroughly.
- 6.3 Methods and material for containment and clean up
- For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove

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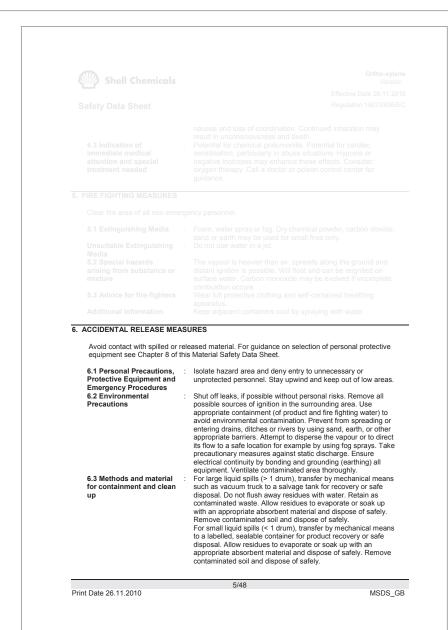
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### Chapter 5: Fire Fighting Measures



#### Chapter 6: Accidental Release Measures

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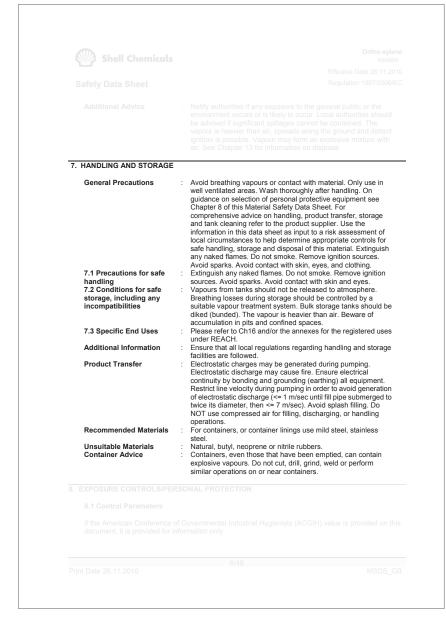
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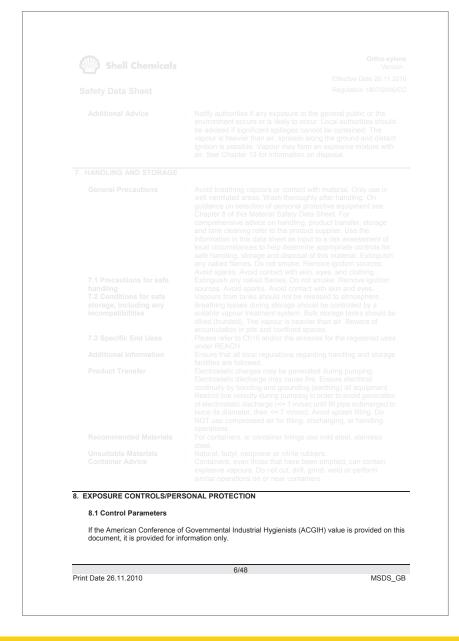
### Chapter 6: Accidental Release Measures

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### Chapter 7: Handling and Storage





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#### Occupational Exposure Limits

UK Workplace Exposure Limits

Material	Source	Type	ppm	mg/m3	Notation
ortho-Xylen	EH40 WEL	TWA	50 ppm	220 mg/m3	
e ´				Ü	
	EH40 WEL	STEL	100 ppm	441 mg/m3	
	EH40 WEL	SKIN_DES			Can be absorbed through
		_			the skin.

Additional Information

Skin notation means that significant exposure can also occur by absorption of liquid through the skin and of vapour through the eyes or mucous membranes.

#### Derived No Effect Levels (DNEL):

Component	Exposure Route	Exposure Type (long-term/acute)	Application Area	Value
ortho-Xylene	Inhalation	acute, systemic effects	Worker	442 mg/m3
	Inhalation	acute, local effects	Worker	442 mg/m3
	Dermal	long term, systemic effects	Worker	3.182 mg/kg
	Inhalation	long term, systemic effects	Worker	221 mg/m3
	Inhalation	long term, local effects	Worker	221 mg/m3
	Inhalation	acute, systemic effects	Consumer	260 mg/m3
	Inhalation	acute, local effects	Consumer	260 mg/m3
	Dermal	long term, systemic effects	Consumer	1.872 mg/kg
	Inhalation	long term, systemic effects	Consumer	65.3 mg/m3
	Oral	long term, systemic effects	Consumer	12.5 mg/kg
	Inhalation	long term, local effects	Consumer	65.3 mg/m3

Predicted No Effect Concentration (PNEC)

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General note: Where exposure scenarios are included in the Safety Data Sheet, this section should be read in conjunction with the use details given in the relevant exposure scenarios.



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Component	Exposure Route	Value	Remark
ortho-Xylene	Water	0.25 mg/l	None
	Sediment	14.33 mg/kg	None
	Soil	2.41 mg/kg	None
	STP	5 mg/l	None

#### 8.2 Exposure Controls

General Information

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Adequate explosion-proof ventilation to control airborne concentrations. Firewater monitors and deluge systems are recommended. Eye washes and showers for emergency use.

#### **Occupational Exposure Controls**

Personal Protective **Fauinment** Eye Protection

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Chemical splash goggles (chemical monogoggles). Approved to

EU Standard EN166, AS/NZS:1337.

Hand Protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739, AS/NZS:2161) made from the following materials may provide suitable chemical protection: Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical

resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Body protection** 

: Chemical resistant gloves/gauntlets, boots, and apron. Where risk of splashing or in spillage clean up, use chemical resistant

one-piece overall with integral hood.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with

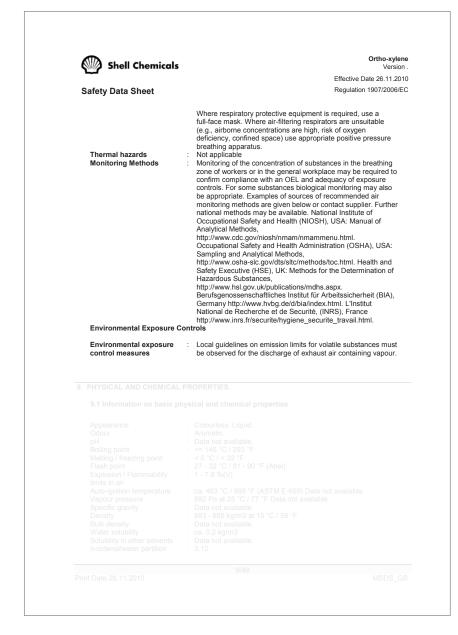
respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapours [boiling point >65 °C (149 °F)] meeting EN14387.

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#### Chapter 9: Physical and Chemical Properties

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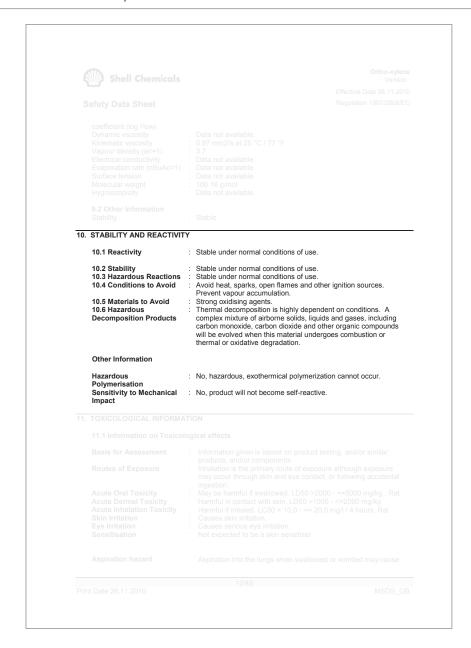
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### Chapter 9: Physical and Chemical Properties

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### Chapter 10: Stability and Reactivity



### Chapter 11: Toxicological Information

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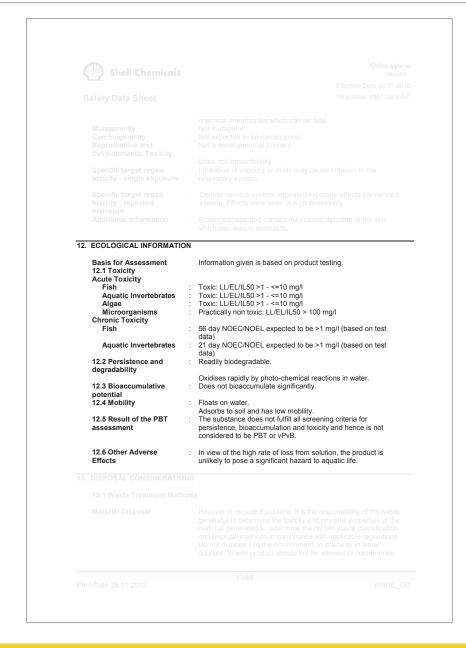


## Chapter 11: Toxicological Information

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## Chapter 12: Ecological Information



### Chapter 13: Disposal Considerations

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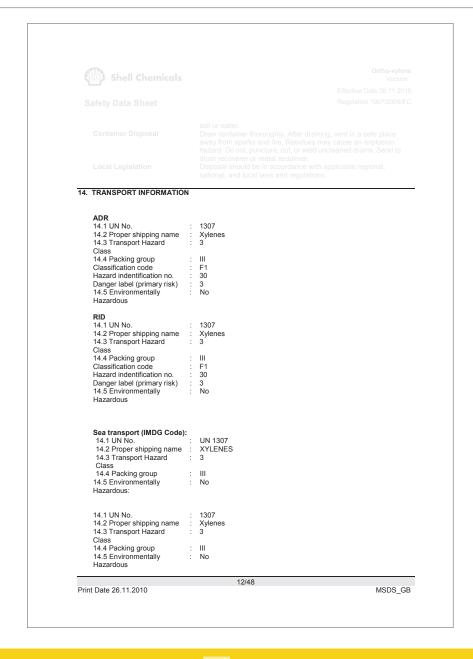


### Chapter 13: Disposal Considerations

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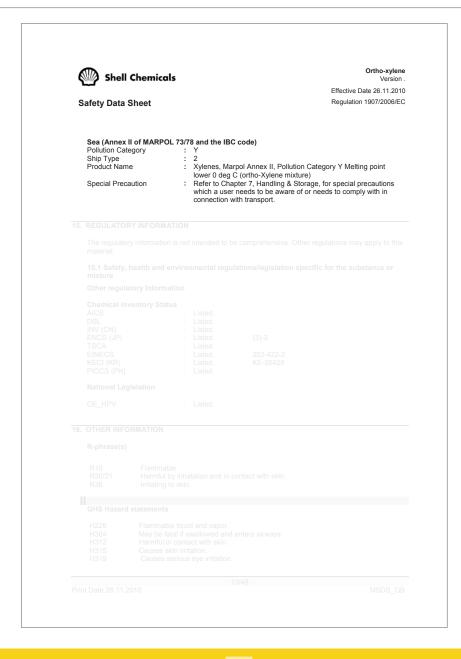


### Chapter 14: Transport Information

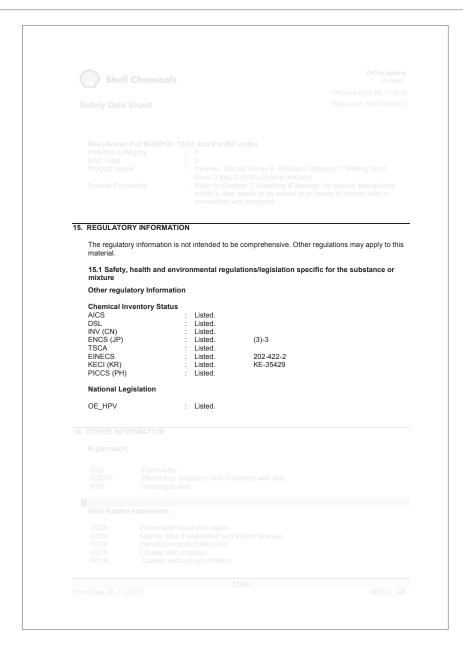


### Chapter 14: Transport Information

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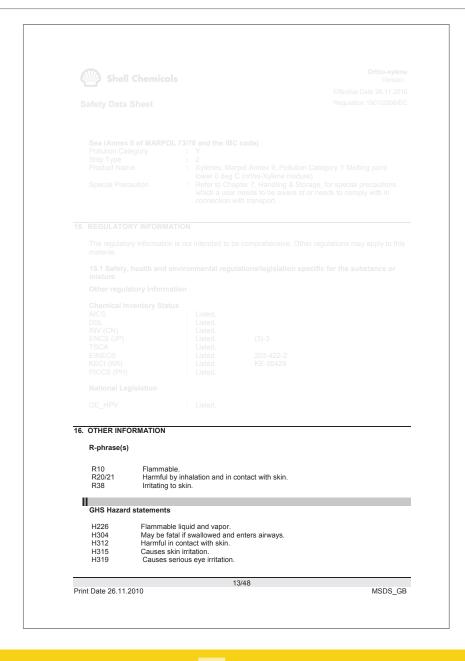


## Chapter 15: Regulatory Information



# Chapter 16: Other Information

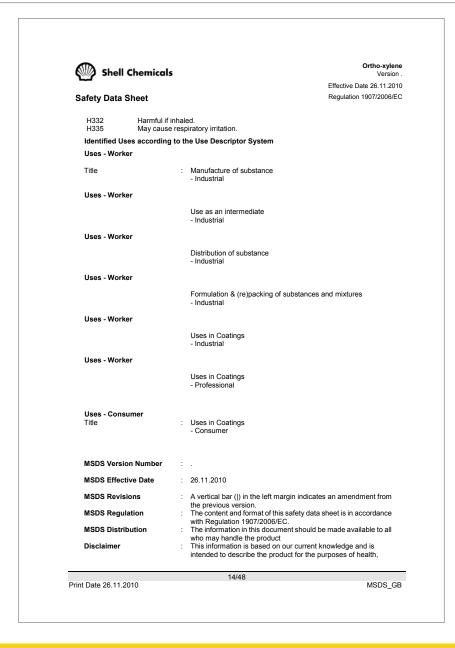
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# Chapter 16: Other Information

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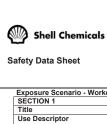


# Chapter 16: Other Information

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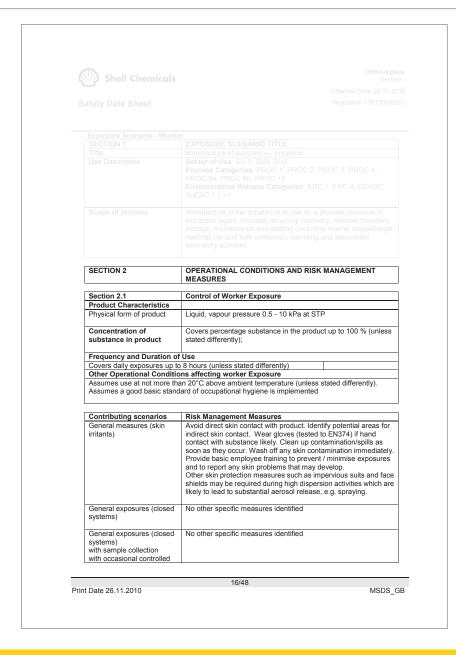


General note: In this guide we only show one 'worker' exposure scenario and one consumer exposure scenario. In reality there will be more.

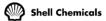
Effective Date 26.11.2010 Regulation 1907/2006/EC Exposure Scenario - Worker EXPOSURE SCENARIO TITLE Manufacture of substance - Industrial Sector of Use: SU 3, SU8, SU9 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental Release Categories: ERC 1, ERC 4, ESVOC SpERC 1.1.v1 Scope of process Manufacture of the substance or use as a 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.

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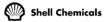
exposure.	
General exposures (closed systems) Use in contained batch processes	No other specific measures identified
General exposures (open systems) Batch process with sample collection	No other specific measures identified
Process sampling	Provide a good standard of controlled ventilation (10 to 15 air changes per hour) , or: Avoid carrying out activities involving exposure for more than 1 hour
Laboratory activities	No other specific measures identified
Bulk transfers (open systems) with potential for aerosol generation.	Provide a good standard of controlled ventilation (10 to 15 air changes per hour) , or: Avoid carrying out activities involving exposure for more than 1 hour
Bulk transfers (closed systems)	Provide a good standard of controlled ventilation (10 to 15 air changes per hour) , or: Avoid carrying out activities involving exposure for more than 1 hour
Equipment cleaning and maintenance	Drain down system prior to equipment break-in or maintenance
Storage with occasional controlled exposure.	Store substance within a closed system No other specific measures identified

Section 2.2	Control of Environmental	Exposure	
Substance is a unique s	Substance is a unique structure.		
Readily biodegradable.	Readily biodegradable.		
Amounts used			
Fraction of EU tonnage used in region: 0.143		0.143	
Regional use tonnage (tonnes/year):		6.0E+05	
Fraction of Regional tonnage used locally:		1	
Annual site tonnage (tonnes/year):		6.0E+05	
Maximum daily site tonnage (kg/day):		2.0E+06	
Frequency and Duration of Use			
Continuous release.			
Emission Days (days/year): 300		300	

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Local freshwater dilution factor:	40
ocal marine water dilution factor:	100
Other Operational Conditions affecting Environmental Exposure	
Release fraction to air from process (initial release prior to RMM):	5.0E-03
Release fraction to wastewater from process (initial release prior to RMM):	3.0E-03
Release fraction to soil from process (initial release prior to RMM):	1.0E-04
Technical conditions and measures at process level (source) to prev	ent release
Common practices vary across sites thus conservative process release estimates used.	
Technical onsite conditions and measures to reduce or limit dischare and releases to soil	ges, air emissions
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
Risk from environmental exposure is driven by wastewater treatment plant microbes.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of <sup>3</sup> (%)	93.6
If discharging to domestic sewage treatment plant, provide the required	0
onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment plan	1
Estimated substance removal from wastewater via domestic sewage treatment (%)	93.6
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	93.6
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/day).	6.4E+06
Assumed domestic sewage treatment plant flow (m3/d)	10.000
Conditions and Measures related to external treatment of waste for d	
During manufacturing no waste of the substance is generated.	-p
Conditions and measures related to external recovery of waste	

ſ	SECTION 3	EXPOSURE ESTIMATION
ſ	Section 3.1 - Health	
	The ECETOC TRA tool has indicated.	s been used to estimate workplace exposures unless otherwise

Section 3.2 -Environment
Used EUSES model.

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SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

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Exposure Scenarios - Consumer	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings - Consumer
Use Descriptor	Sector of Use: SU 21 Product Categories: PC1, PC4, PC8a (excipient only), PC9a, PC9b, PC15, PC18, PC23, PC24, PC31, PC34 Environmental Release Categories: ERC 8A, ERC 8D, ESVOC SPERC 8.3c.v1
Scope of process	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT
	MEASURES

Section 2.1	Control of Consumer Exposure	9
Product Characteristics		
Physical form of product	Liquid, vapour pressure > 10 Pa	
Concentration of Covers concentration up to (%):; 100 % substance in product		100 %
Amounts used	<u> </u>	
Unless otherwise stated:		
For each use event, covers amount up to (g):		13,800
Covers skin contact area (cm2):		857.5
Frequency and Duration	of Use	•
Unless otherwise stated:		
Covers use up to (times/day of use):		1
Covers use up to (hours/event): 6		6
Other Operational Condit	ions affecting consumer Exposure	
Unless otherwise stated:		
Covers use at ambient temperatures.		
Covers use in room size of 20m3		

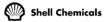
Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Adhesives, Sealants. Glues, hobby use.	Covers concentrations up to 30 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 35.73 cm2
	For each use event, covers amount up to 9 g
	Covers use in room size of 20 m3
	Covers exposure up to 4 hours/event
Adhesives, Sealants. Glues DIY-use (carpet glue, tile	Covers concentrations up to 3 %

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Covers use under typical household ventilation.

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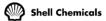
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glue, wood parquet glue).	
·	Covers use up to 1 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 110.00 cm2
	For each use event, covers amount up to 6,390 g
	Covers use in room size of 20 m3
	Covers exposure up to 6.00 hours/event
Adhesives, Sealants. Glue from spray.	Covers concentrations up to 24 %
	Covers use up to 6 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 35.73 cm2
	For each use event, covers amount up to 85.05 g
	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
Adhesives, Sealants. Sealants.	Covers concentrations up to 30 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 35.73 cm2
	For each use event, covers amount up to 75 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event
Anti-Freeze and De-icing products. Washing car window.	Covers concentrations up to 1 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 35.73 cm2
	For each use event, covers amount up to 0.5 g
	Covers use in a one car garage (34 m3) under typical ventilation
	Covers use in room size of 34 m3
	Covers exposure up to 0.02 hours/event
Anti-Freeze and De-icing products. Pouring into radiator.	Covers concentrations up to 10 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.00 cm2
	For each use event, covers amount up to 2,000 g
	For each use event, covers amount up to 2,000 g  Covers use in a one car garage (34 m3) under typical ventilation
	For each use event, covers amount up to 2,000 g
Anti-Freeze and De-icing	For each use event, covers amount up to 2,000 g  Covers use in a one car garage (34 m3) under typical ventilation  Covers use in room size of 34 m3
Anti-Freeze and De-icing products. Lock de-icer.	For each use event, covers amount up to 2,000 g Covers use in a one car garage (34 m3) under typical ventilation Covers use in room size of 34 m3 Covers exposure up to 0.17 hours/event Covers concentrations up to 50 %
	For each use event, covers amount up to 2,000 g Covers use in a one car garage (34 m3) under typical ventilatior Covers use in room size of 34 m3 Covers exposure up to 0.17 hours/event Covers concentrations up to 50 %  Covers use up to 365 days/year
	For each use event, covers amount up to 2,000 g Covers use in a one car garage (34 m3) under typical ventilatior Covers use in room size of 34 m3 Covers exposure up to 0.17 hours/event Covers concentrations up to 50 % Covers use up to 365 days/year Covers use up to 1 times/day of use
	For each use event, covers amount up to 2,000 g Covers use in a one car garage (34 m3) under typical ventilatior Covers use in room size of 34 m3 Covers exposure up to 0.17 hours/event Covers concentrations up to 50 %  Covers use up to 365 days/year Covers use up to 1 times/day of use Covers skin contact area 214.40 cm2
	For each use event, covers amount up to 2,000 g Covers use in a one car garage (34 m3) under typical ventilatior Covers use in room size of 34 m3 Covers exposure up to 0.17 hours/event Covers concentrations up to 50 %  Covers use up to 365 days/year Covers use up to 1 times/day of use Covers skin contact area 214.40 cm2 For each use event, covers amount up to 4 g
	For each use event, covers amount up to 2,000 g Covers use in a one car garage (34 m3) under typical ventilatior Covers use in room size of 34 m3 Covers exposure up to 0.17 hours/event Covers concentrations up to 50 %  Covers use up to 365 days/year Covers use up to 1 times/day of use Covers skin contact area 214.40 cm2

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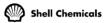
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	T
Biocidal Products (e.g.	Covers concentrations up to 5 %
Disinfectants, pestcontrol).	
(excipient only). Laundry	
and dish washing products.	Covers use up to 205 develveer
	Covers use up to 365 days/year Covers use up to 1 times/day of use
	Covers use up to 1 times/day of use  Covers skin contact area 857.50 cm2
	For each use event, covers amount up to 15 g
	Covers use in room size of 20 m3
	Covers use in room size of 20 m3  Covers exposure up to 0.50 hours/event
Dissided Desducts (s. s.	Covers exposure up to 0.50 hours/event
Biocidal Products (e.g. Disinfectants, pestcontrol).	Covers concentrations up to 5 %
(excipient only). Cleaners,	
liquids (all purpose cleaners,	
sanitary products, floor	
cleaners, glass cleaners,	
carpet cleaners, metal	
cleaners).	
Gloaneroj.	Covers use up to 128 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 857.50 cm2
	For each use event, covers amount up to 27 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Biocidal Products (e.g.	Covers concentrations up to 15 %
Disinfectants, pestcontrol).	
(excipient only). Cleaners,	
trigger sprays (all purpose	
cleaners, sanitary products,	
glass cleaners).	
	Covers use up to 128 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.00 cm2
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
Coatings and Paints,	Covers concentrations up to 1.5 %
Thinners, paint removers.	
Waterborne latex wall paint.	
	Covers use up to 4 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.75 cm2
	For each use event, covers amount up to 2,760 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Coatings and Paints,	Covers concentrations up to 27.5 %
Thinners, paint removers.	
Solvent rich, high solid,	
water borne paint.	
	Covers use up to 6 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.75 cm2

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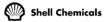
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	For each use event, covers amount up to 744 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Coatings and Paints, Thinners, paint removers. Aerosol spray can.	Covers concentrations up to 50 %
	Covers use up to 2 days/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m3) under typical ventilation
	Covers use in room size of 34 m3
	Covers exposure up to 0.33 hours/event
Coatings and Paints, Thinners, paint removers. Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
•	Covers use up to 3 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 857.50 cm2
	For each use event, covers amount up to 491 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.00 hours/event
Fillers, Putties. Fillers and putty.	Covers concentrations up to 2 %
	Covers use up to 12 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 35.73 cm2
	For each use event, covers amount up to 85 g
	Covers use in room size of 20 m3
	Covers exposure up to 4.00 hours/event
Fillers, Putties. Plasters and floor equalizers.	Covers concentrations up to 1.9 %
	Covers use up to 12 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 857.50 cm2
	For each use event, covers amount up to 13,800 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.00 hours/event
Fillers, Putties. Modelling clay.	Covers concentrations up to 1 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 254.40 cm2
	For each use event, assumes swallowed amount of 1 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event
Finger paints Finger paints.	Covers concentrations up to 8 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 254.40 cm2
	For each use event, assumes swallowed amount of 1.35 g

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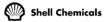
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	Covers use in room size of 20 m3
	Covers exposure up to 0.03 hours/event
Non-metal-surface	Covers concentrations up to 1.5 %
treatment products. Waterborne latex wall paint.	·
	Covers use up to 4 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.75 cm2
	For each use event, covers amount up to 2,760 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Non-metal-surface treatment products. Solvent rich, high solid, water borne paint.	Covers concentrations up to 27.5 %
•	Covers use up to 6 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.75 cm2
	For each use event, covers amount up to 744 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Non-metal-surface treatment products. Aerosol spray can.	Covers concentrations up to 50 %
	Covers use up to 2 days/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m3) under typical ventilation
	Covers use in room size of 34 m3
	Covers exposure up to 0.33 hours/event
Non-metal-surface treatment products. Removers (paint-, glue-, wall paper-, sealant-remover).	Covers concentrations up to 50 %
	Covers use up to 3 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 857.50 cm2
	For each use event, covers amount up to 491 g
	Covers use in room size of 20 m3
	Covers exposure up to 2.00 hours/event
Ink and Toners. Inks and toners.	Covers concentrations up to 10 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 71.40 cm2
	For each use event, covers amount up to 40 g
<u> </u>	Covers use in room size of 20 m3
	Covers exposure up to 2.20 hours/event
Leather tanning, dye, finishing, impregnation and care products. Polishes,	Covers concentrations up to 50 %

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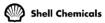
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wax / cream (floor, furniture, shoes).	
	Covers use up to 29 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 430.00 cm2
	For each use event, covers amount up to 56 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.23 hours/event
Leather tanning, dye, finishing, impregnation and care products. Polishes, spray (furniture, shoes).	Covers concentrations up to 50 %
	Covers use up to 8 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 430.00 cm2
	For each use event, covers amount up to (g): 56 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Lubricants, Greases and Release Products. Liquids.	Covers concentrations up to 100 %
	Covers use up to 4 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 468.00 cm2
	For each use event, covers amount up to 2,200 g
	Covers use in a one car garage (34 m3) under typical ventilation
	Covers use in room size of 34 m3
	Covers exposure up to 0.17 hours/event
Lubricants, Greases and Release Products. Pastes.	Covers concentrations up to 20 %
	Covers use up to 10 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 468.00 cm2
	For each use event, covers amount up to 34 g
	Covers use in room size of 20 m3
Lubricants, Greases and Release Products. Sprays.	Covers concentrations up to 50 %
	Covers use up to 6 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 428.75 cm2
	For each use event, covers amount up to 73 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.17 hours/event
Polishes and Wax Blends. Polishes, wax / cream (floor, furniture, shoes).	Covers concentrations up to 50 %
	Covers use up to 29 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 430.00 cm2
	For each use event, covers amount up to 142 g
<u> </u>	Covers use in room size of 20 m3
	Covers exposure up to 1.23 hours/event
Polishes and Wax Blends.	Covers concentrations up to 50 %

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Polishes, spray (furniture, shoes).	
	Covers use up to 8 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 430.00 cm2
	For each use event, covers amount up to 35 g
	Covers use in room size of 20 m3
	Covers exposure up to 0.33 hours/event
Textile dyes, finishing and impregnating products; including bleaches and other processing aids.	Covers concentrations up to 10 %
	Covers use up to 365 days/year
	Covers use up to 1 times/day of use
	Covers skin contact area 857.50 cm2
	For each use event, covers amount up to 115 g
	Covers use in room size of 20 m3
	Covers exposure up to 1.00 hours/event

Substance is a unique structu		
substance is a unique structi	ire.	
Readily biodegradable.		
Amounts used		
Fraction of EU tonnage used in region:		0.1
Regional use tonnage (tonnes/year):		7.0E+03
Fraction of Regional tonnage	used locally:	0.002
Annual site tonnage (tonnes/	year):	14
Maximum daily site tonnage	kg/day):	38
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		365
Environmental factors not i	nfluenced by risk management	
ocal freshwater dilution factor	or:	10
Local marine water dilution factor:		100
	ns affecting Environmental Exposure	
Release fraction to air from w	ride dispersive use (regional only):	9.85E-01
Release fraction to wastewater from wide dispersive use:		1.0E-02
Release fraction to soil from	wide dispersive use (regional only):	5.0E-03
Conditions and Measures r	elated to municipal sewage treatment plar	1
Estimated substance removal from wastewater via domestic sewage treatment (%)		93.6
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/day).		1.8E+04
Assumed domestic sewage treatment plant flow (m3/d)		2,000
Conditions and Measures r	elated to external treatment of waste for d	isposal
External treatment and dispo	sal of waste should comply with applicable lo	cal and/or national
egulations.		

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External recovery and recycling of waste should comply with applicable local and/or national

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Section 3.2 -Environment

Used EUSES model.

SECTION 4 GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 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 panaged to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

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