



# New Guard Coatings Group

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# SAFETY DATA SHEET



Date of issue/Date of revision : 21 November 2016 Version : 12.05

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

### 1.1 Product identifier

**Product name** : THINNER 21-06  
**Product code** : 00103558  
**EC number** : 215-535-7  
**CAS number** : 1330-20-7  
**Other means of identification** : Not available.

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

Identified uses
Use in coatings-Consumer Use in coatings-Professional

**Product use** : Consumer applications, Professional applications, Used by spraying.

### 1.3 Details of the supplier of the safety data sheet

PPG Coatings SPRL/BVBA  
Tweemontstraat 104  
B-2100 Deurne  
Belgium  
Telephone +32-33606311  
Fax +32-33606435

**e-mail address of person responsible for this SDS** : PMC.Safety@PPG.com

### 1.4 Emergency telephone number

#### Supplier

**Telephone number** :  
+31 20 4075210

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Multi-constituent substance

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226  
Acute Tox. 4, H312  
Acute Tox. 4, H332  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
STOT SE 3, H335  
STOT RE 2, H373  
Asp. Tox. 1, H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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## SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: Flammable liquid and vapour.  
Harmful in contact with skin or if inhaled.  
Causes serious eye irritation.  
Causes skin irritation.  
May be fatal if swallowed and enters airways.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

##### General

: Keep out of reach of children. If medical advice is needed, have product container or label at hand.

##### Prevention

: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.

##### Response

: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### Storage

: Store in a well-ventilated place. Keep cool.

##### Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Hazardous ingredients

:  Xylene

#### Supplemental label elements

: Not applicable.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

#### Special packaging requirements

##### Containers to be fitted with child-resistant fastenings

: Yes, applicable.

##### Tactile warning of danger

: Yes, applicable.

### 2.3 Other hazards

#### Substance meets the criteria for PBT

: Not available.

#### Substance meets the criteria for vPvB

: Not available.

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## SECTION 2: Hazards identification

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

3.1 Substances : Multi-constituent substance

Product/ingredient name	Identifiers	% by weight	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
xylene	EC: 215-535-7 CAS: 1330-20-7	100	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	[*]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	84.585	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (central nervous system (CNS), kidneys, liver) Asp. Tox. 1, H304	[A]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	15	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304  <b>See Section 16 for the full text of the H statements declared above.</b>	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

### Type

- [\*] Substance
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

**SUB codes represent substances without registered CAS Numbers.**

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. May cause respiratory irritation.
- Skin contact** : Harmful in contact with skin. Causes skin irritation. Defatting to the skin.
- Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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## SECTION 6: Accidental release measures

- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- 7.2 Conditions for safe storage, including any incompatibilities** : Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

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## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b> STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b> STEL: 552 mg/m <sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
xylene	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	174 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	174 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	108 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	14.8 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	Consumers	Systemic

#### PNECs



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## SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended.

**Gloves** : For prolonged or repeated handling, use the following type of gloves:

Recommended: polyvinyl alcohol (PVA), Viton®  
Not recommended: nitrile rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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## SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Filter type: organic vapour (Type A) and particulate filter P3
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Aromatic.
- Odour threshold** : Not available.
- pH** : insoluble in water.
- Melting point/freezing point** : May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -94.95°C (-138.9°F)
- Initial boiling point and boiling range** : >37.78°C
- Flash point** : Closed cup: 24°C
- Evaporation rate** : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.78 compared with butyl acetate
- Material supports combustion.** : Yes.
- Flammability (solid, gas)** : liquid
- Upper/lower flammability or explosive limits** : Lower: 0.83%  
Upper: 6.7%
- Vapour pressure** : Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.95 kPa (7.13 mm Hg) (at 20°C)
- Vapour density** : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1)
- Relative density** : 0.87
- Solubility(ies)** : Insoluble in the following materials: cold water.
- Partition coefficient: n-octanol/ water** : Not available.
- Auto-ignition temperature** : 460°C
- Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).
- Explosive properties** : Product does not present an explosion hazard.
- Oxidising properties** : Product does not present an oxidizing hazard.

### 9.2 Other information

No additional information.

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## SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.  
Refer to protective measures listed in sections 7 and 8.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

**Conclusion/Summary** : Not available.

#### Sensitisation

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

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## SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2	Not determined	central nervous system (CNS), kidneys and liver
ethylbenzene	Category 2	Not determined	hearing organs

### Aspiration hazard

Product/ingredient name	Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

- Inhalation** : Harmful if inhaled. May cause respiratory irritation.
- Ingestion** : May be fatal if swallowed and enters airways.
- Skin contact** : Harmful in contact with skin. Causes skin irritation. Defatting to the skin.
- Eye contact** : Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

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## SECTION 11: Toxicological information

Not available.

- Conclusion/Summary** : Not available.
- General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Other information** : Not available.

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethylbenzene	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low

### 12.4 Mobility in soil

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## SECTION 12: Ecological information

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not available.  
P: Not available. B: Not available. T: Yes.

**vPvB** : Not available.  
vP: Not available. vB: Not available.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 21*	waste paint or varnish remover

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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## 14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	1307	1307	1307	1307
14.2 UN proper shipping name	XYLENES	XYLENES	XYLENES	XYLENES
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

### Additional information

ADR/RID : None identified.  
ADN : None identified.  
IMDG : None identified.  
IATA : None identified.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

##### Seveso Directive

This product is controlled under the Seveso Directive.

##### Danger criteria

###### Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b  
6: Flammable (R10)

Code : 00103558 Date of issue/Date of revision : 21 November 2016  
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## SECTION 15: Regulatory information

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H312	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

### Full text of classifications [CLP/GHS]

Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

### History

**Date of issue/ Date of revision** : 21 November 2016

**Date of previous issue** : 18 November 2016

**Prepared by** : EHS



Code : 00103558

Date of issue/Date of revision

: 21 November 2016

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## SECTION 16: Other information

Version : 12.05

### Disclaimer

*The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.*

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Multi-constituent substance  
**Code** : 00103558  
**Product name** : THINNER 21-06

### Section 1 - Title

**Short title of the exposure scenario** : 1330-20-7 professional  
**List of use descriptors** : **Identified use name:** Use in coatings-Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC15, PROC19  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **General measures (skin irritants)** - PROC01  
**Filling/preparation of equipment from drums or containers** - PROC02  
**General exposures (closed systems)** - PROC01, PROC03  
**Preparation of material for application** - PROC04, PROC05  
**Material transfers** - PROC08a, PROC08b  
**Roller, spreader, flow application** - PROC10  
**Manual spraying** - PROC11  
**Dipping, immersion and pouring** - PROC13  
**Laboratory activities** - PROC15  
**Hand application - fingerpaints, pastels, adhesives** - PROC19  
**Equipment cleaning and maintenance**  
**Storage**

<b>Number of the ES</b>	: 1
<b>Industry Association</b>	: CEPE
<b>Processes and activities covered by the exposure scenario</b>	: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.

### Section 2 - Exposure controls

<b>Contributing scenario controlling environmental exposure for 1:</b>	
<b>Product characteristics</b>	: Substance is isomeric mixture. Readily biodegradable
<b>Amounts used</b>	: Fraction of EU tonnage used in region: 0.1 Regional use tonnage: 5.0E+03 Tonnes/year Fraction of Regional tonnage used locally: 0.002 Annual site tonnage: 10 Tonnes/year Maximum daily site tonnage: 27.4 kg/day
<b>Frequency and duration of use</b>	: Emission days: 365
<b>Environment factors not influenced by risk management</b>	: Local freshwater dilution factor: 10 Local marine water dilution factor: 100
<b>Date of issue/Date of revision</b>	: ^(ES Revision date)

<b>Other conditions affecting environmental exposure</b>	: Release fraction to air from process (initial release prior to RMM): 9.8E-01 Release fraction to wastewater from process (initial release prior to RMM): 1.0E-02 Release fraction to soil from process (initial release prior to RMM): 1.0E-02
<b>Technical conditions and measures at process level (source) to prevent release</b>	: Common practices vary across sites thus conservative process release estimates used.
<b>Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	: Risk from environmental exposure is driven by freshwater sediment. Prevent discharge of undissolved substance to or recover from onsite wastewater. If discharging to municipal sewage treatment plant, no on-site wastewater treatment required. Treat air emission to provide a typical removal efficiency of 0% Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%): 93.6 If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of $\geq$ (%): 0
<b>Organisational measures to prevent/limit release from site</b>	: Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
<b>Conditions and measures related to sewage treatment plant</b>	: Estimated substance removal from wastewater via municipal sewage treatment: 93.6% Total efficiency of removal from wastewater after on-site and off-site (municipal treatment plant) RMMs: 93.6% Maximum allowable site tonnage ( $M_{\text{safe}}$ ) based on release following total wastewater treatment removal: 4.6E+03 kg/day Assumed domestic sewage treatment plant flow: 2000 m <sup>3</sup> /d
<b>Conditions and measures related to external treatment of waste for disposal</b>	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
<b>Conditions and measures related to external recovery of waste</b>	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Contributing scenario controlling worker exposure for 2: General measures (skin irritants)

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.

**Contributing scenario controlling worker exposure for 3: Filling/preparation of equipment from drums or containers**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Ensure material transfers are under containment or extract ventilation.

**Contributing scenario controlling worker exposure for 4: General exposures (closed systems)**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Use in contained systems Ensure material transfers are under containment or extract ventilation.

**Contributing scenario controlling worker exposure for 5: Preparation of material for application**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Indoor use Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
<b>Organisational measures to prevent/limit releases, dispersion and exposure</b>	: Outdoor use Ensure operation is undertaken outdoors.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Indoor or outdoor use Avoid carrying out activities involving exposure for more than 1 hour.

**Contributing scenario controlling worker exposure for 6: Material transfers**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours

<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Drum/batch transfers Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
<b>Organisational measures to prevent/limit releases, dispersion and exposure</b>	: Drum/batch transfers Transfer via enclosed lines.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	

#### Contributing scenario controlling worker exposure for 7: Roller, spreader, flow application

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Indoor use Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Outdoor use Ensure operation is undertaken outdoors.
<b>Respiratory protection</b>	: Indoor or outdoor use Wear a respirator conforming to EN140 with type A filter or better.

#### Contributing scenario controlling worker exposure for 8: Manual spraying

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Indoor use Carry out in a vented booth provided with laminar airflow.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Outdoor use Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 4 hours.
<b>Respiratory protection</b>	: Outdoor use Wear a full-face respirator conforming to EN136 with type A filter or better.

#### Contributing scenario controlling worker exposure for 9: Dipping, immersion and pouring

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours

<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Indoor use Provide extract ventilation to points where emissions occur.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Indoor use-Avoid carrying out activities involving exposure for more than 4 hours. Outdoor use-Ensure operation is undertaken outdoors.
<b>Respiratory protection</b>	: Outdoor use Wear a respirator conforming to EN140 with type A filter or better.

**Contributing scenario controlling worker exposure for 10: Laboratory activities**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Handle in a fume cupboard or under extract ventilation.

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

**Contributing scenario controlling worker exposure for 11: Hand application - fingerpaints, pastels, adhesives**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Indoor or outdoor use Limit the substance in product to 5%
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: Indoor use Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Outdoor use Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 4 hours.

**Contributing scenario controlling worker exposure for 12: Equipment cleaning and maintenance**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Drain down system prior to equipment break-in or maintenance. Avoid carrying out activities involving exposure for more than 4 hours.

**Contributing scenario controlling worker exposure for 13: Storage**

<b>Product characteristics</b>	: Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
<b>Concentration of substance in mixture or article</b>	: Covers percentage substance in the product up to 100% (unless stated differently).
<b>Frequency and duration of use/exposure</b>	: Covers daily exposures up to 8 hours
<b>Other conditions affecting workers exposure</b>	: Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
<b>Ventilation control measures</b>	: With occasional controlled exposure Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Advice on general occupational hygiene</b>	: Store substance within a closed system.

**Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : EUSES

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 2: General measures (skin irritants)**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 3: Filling/preparation of equipment from drums or containers**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 4: General exposures (closed systems)**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 5: Preparation of material for application**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 6: Material transfers**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 7: Roller, spreader, flow application**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 8: Manual spraying**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 9: Dipping, immersion and pouring**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 10: Laboratory activities**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 11: Hand application - fingerpaints, pastels, adhesives**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 12: Equipment cleaning and maintenance**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Workers: 13: Storage**

**Exposure assessment (human):** : The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Section 4 - GUIDANCE TO DU TO EVALUATE WHETHER HE WORKS INSIDE THE BOUNDARIES SET BY THE ES**



<b>Environment</b>	: 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 ( <a href="http://cefic.org/en/reach-for-industries-libraries.html">http://cefic.org/en/reach-for-industries-libraries.html</a> ).
<b>Health</b>	: 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.

### Additional good practice advice beyond the REACH CSA

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.

## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Multi-constituent substance  
**Code** : 00103558  
**Product name** : THINNER 21-06

### Section 1 - Title

**Short title of the exposure scenario** : 1330-20-7 consumer

**List of use descriptors** : **Identified use name:** Use in coatings-Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** PC01, PC04, PC08, PC09a, PC09b, PC09c, PC15, PC18, PC23, PC24, PC31, PC34

**Environmental contributing scenarios** :

**Health Contributing scenarios** : **Glues, hobby use** - PC01  
**Glues DIY-use (carpet glue, tile glue, wood parquet glue)** - PC01  
**Glue from spray** - PC01  
**Sealants** - PC01  
**Washing car window** - PC04  
**Pouring into radiator** - PC04  
**Lock de-icer** - PC04  
**Water-borne latex wall paint** - PC09a, PC15  
**Solvent-rich, high-solid, water-borne paint** - PC09a, PC15  
**Aerosol spray can** - PC09a, PC15  
**Removers (paint-, glue-, wall paper-, sealant-remover)** - PC09a, PC15  
**Fillers and putty** - PC09b  
**Plasters and floor equalisers** - PC09b  
**Modelling clay** - PC09b  
**Finger paints** - PC09c  
**Liquids** - PC24  
**Pastes** - PC24  
**Sprays** - PC24  
**Polishes, wax/cream (floor, furniture, shoes)** - PC23, PC31  
**Polishes, spray (furniture, shoes)** - PC23, PC31  
**Laundry and dish-washing products** - PC08  
**Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)** - PC08  
**Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)** - PC08  
**Inks and toners** - PC18  
**Textile dyes, finishing and impregnating products; including bleaches and other processing aids** - PC34

<b>Number of the ES</b>	: 1
<b>Industry Association</b>	: CEPE
<b>Processes and activities covered by the exposure scenario</b>	: 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.

**Date of issue/Date of revision** : ^(ES Revision date)

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## Section 2 - Exposure controls

### Contributing scenario controlling environmental exposure for 1:

<b>Product characteristics</b>	: Substance is isomeric mixture. Readily biodegradable
<b>Amounts used</b>	: Fraction of EU tonnage used in region: 0.1 Regional use tonnage: 5.0E+03 Tonnes/year Fraction of Regional tonnage used locally: 0.002 Annual site tonnage: 10 Tonnes/year Maximum daily site tonnage: 27.4 kg/day
<b>Frequency and duration of use</b>	: Emission days: 365
<b>Environment factors not influenced by risk management</b>	: Local freshwater dilution factor: 10 Local marine water dilution factor: 100
<b>Other conditions affecting environmental exposure</b>	: Release fraction to air from wide 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
<b>Conditions and measures related to sewage treatment plant</b>	: Estimated substance removal from wastewater via municipal sewage treatment: 93.6% Total efficiency of removal from wastewater after on-site and off-site (municipal treatment plant) RMMs: 93.6% Maximum allowable site tonnage ( $M_{\text{Safe}}$ ) based on release following total wastewater treatment removal: 4.6E+03 kg/day Assumed domestic sewage treatment plant flow: 2,000 m <sup>3</sup> /d
<b>Conditions and measures related to external treatment of waste for disposal</b>	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
<b>Conditions and measures related to external recovery of waste</b>	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Contributing scenario controlling consumer exposure for 2: Glues, hobby use

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 30 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 9 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 4 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 35.73 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.
<b>Conditions and measures related to personal protection and hygiene</b>	

**Contributing scenario controlling consumer exposure for 3: Glues DIY-use (carpet glue, tile glue, wood parquet glue)**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 0.2 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 6,390 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 1 days per year Covers use up to 1 application per day Covers exposure up to 6 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 35.70 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 4: Glue from spray**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 5 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 85.05 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 6 days per year Covers use up to 1 application per day Covers exposure up to 4 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 35.73 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 5: Sealants**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 25 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 75 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 1 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 35.73 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 6: Washing car window**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 1 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 0.5 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 0.02 Hours per shift
<b>Area of use:</b>	: Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Covers use in room size of 34 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 7: Pouring into radiator**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 10 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 2,000 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 0.17 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 428 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Covers use in room size of 34 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 8: Lock de-icer**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 50 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 4 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 0.25 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 214.40 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Covers use in room size of 34 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 9: Water-borne latex wall paint**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 0.5 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 2,760 g/event

<b>Frequency and duration of use/exposure</b>	: Covers use up to 4 days per year Covers use up to 1 application per day Covers exposure up to 2.20 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 428.75 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

#### Conditions and measures related to personal protection and hygiene

#### Contributing scenario controlling consumer exposure for 10: Solvent-rich, high-solid, water-borne paint

<b>Concentration of substance in mixture or article</b>	: Coatings and paints, thinners, paint removers: Covers concentrations up to 2% Non-metal surface treatment products: Covers concentrations up to 2.2%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 744 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 6 days per year Covers use up to 1 application per day Covers exposure up to 2.20 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 428.75 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

#### Conditions and measures related to personal protection and hygiene

#### Contributing scenario controlling consumer exposure for 11: Aerosol spray can

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 21 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 215 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 2 days per year Covers use up to 1 application per day Covers exposure up to 0.33 Hours per shift
<b>Area of use:</b>	: Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Covers use in room size of 34 m <sup>3</sup> Covers use at ambient temperatures.

#### Conditions and measures related to personal protection and hygiene

#### Contributing scenario controlling consumer exposure for 12: Removers (paint-, glue-, wall paper-, sealant-remover)

<b>Concentration of substance in mixture or article</b>	: Coatings and paints, thinners, paint removers Covers concentrations up to 3% Non-metal surface treatment products Covers concentrations up to 3.4%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 491 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 3 days per year Covers use up to 1 application per day Covers exposure up to 2.00 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 857.50 cm <sup>2</sup>

**Area of use:** : Covers use under typical household ventilation.  
Covers use in room size of 20 m<sup>3</sup>  
Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 13: Fillers and putty**

**Concentration of substance in mixture or article** : Covers concentrations up to 2 %

**Physical state** : Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

**Amounts used** : For each use event, covers use amounts up to 85 g/event

**Frequency and duration of use/exposure** : Covers use up to 12 days per year  
Covers use up to 1 application per day  
Covers exposure up to 4.00 Hours per shift

**Other given operational conditions affecting consumers exposure** : Covers skin contact area up to 35.73 cm<sup>2</sup>

**Area of use:** : Covers use under typical household ventilation.  
Covers use in room size of 20 m<sup>3</sup>  
Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 14: Plasters and floor equalisers**

**Concentration of substance in mixture or article** : Covers concentrations up to 0.3 %

**Physical state** : Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

**Amounts used** : For each use event, covers use amounts up to 6,900 g/event

**Frequency and duration of use/exposure** : Covers use up to 2 days per year  
Covers use up to 1 application per day  
Covers exposure up to 0.50 Hours per shift

**Other given operational conditions affecting consumers exposure** : Covers skin contact area up to 857.50 cm<sup>2</sup>

**Area of use:** : Covers use under typical household ventilation.  
Covers use in room size of 20 m<sup>3</sup>  
Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 15: Modelling clay**

**Concentration of substance in mixture or article** : Covers concentrations up to 1 %

**Physical state** : Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)

**Amounts used** : For each use event, assumes swallowed amount of 1 g/event

**Frequency and duration of use/exposure** : Covers use up to 365 days per year  
Covers use up to 1 application per day  
Covers exposure up to 1.00 Hours per shift

**Other given operational conditions affecting consumers exposure** : Covers skin contact area up to 254.40 cm<sup>2</sup>

**Area of use:** : Covers use at ambient temperatures.  
Covers use in room size of 20 m<sup>3</sup>  
Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 16: Finger paints**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 1 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, assumes swallowed amount of 1.35 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 0.03 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 254.40 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use at ambient temperatures. Covers use in room size of 20 m <sup>3</sup> Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 17: Liquids**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 100 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 2,200 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 4 days per year Covers use up to 1 application per day Covers exposure up to 0.17 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 468.00 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use in a one car garage (34 m <sup>3</sup> ) under typical ventilation. Covers use in room size of 34 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 18: Pastes**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 15 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 34 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 10 days per year Covers use up to 1 application per day
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 468.00 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures. Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene**



**Contributing scenario controlling consumer exposure for 19: Sprays**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 45 %
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 73 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 6 days per year Covers use up to 1 application per day Covers exposure up to 0.17 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 428.75 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 20: Polishes, wax/cream (floor, furniture, shoes)**

<b>Concentration of substance in mixture or article</b>	: Leather tanning, dye, finishing, impregnation and care products: Covers concentrations up to 25% Polishes and wax blends: Covers concentrations up to 10%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: Leather tanning, dye, finishing, impregnation and care products: For each use event, covers use amounts up to 56 g/event Polishes and wax blends : For each use event, covers use amounts up to 142 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 29 days per year Covers use up to 1 application per day Covers exposure up to 1.23 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 430.00 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 21: Polishes, spray (furniture, shoes)**

<b>Concentration of substance in mixture or article</b>	: Leather tanning, dye, finishing, impregnation and care products: Covers concentrations up to 33 % Polishes and wax blends: Covers concentrations up to 48%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: Leather tanning, dye, finishing, impregnation and care products: For each use event, covers use amounts up to 56 g/event Polishes and wax blends: For each use event, covers use amounts up to 35 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 8 days per year Covers use up to 1 application per day Covers exposure up to 0.33 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 430.00 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use under typical household ventilation. Covers use in room size of 20 m <sup>3</sup> Covers use at ambient temperatures.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 22: Laundry and dish-washing products**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 5%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 15 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to: 1 application per day Covers use up to 0.50 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 857.50 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use at ambient temperatures. Covers use in room size of 20 m <sup>3</sup> Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 23: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 5%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 27 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 128 days per year Covers use up to 1 application per day Covers exposure up to 0.33 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 857.50 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use at ambient temperatures. Covers use in room size of 20 m <sup>3</sup> Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 24: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 15%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 35 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 128 days per year Covers use up to 1 application per day Covers exposure up to 0.17 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 428.00 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use at ambient temperatures. Covers use in room size of 20 m <sup>3</sup> Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene**

**Contributing scenario controlling consumer exposure for 25: Inks and toners**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 10%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 40 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 2.20 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 71.40 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use at ambient temperatures. Covers use in room size of 20 m <sup>3</sup> Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene****Contributing scenario controlling consumer exposure for 26: Textile dyes, finishing and impregnating products; including bleaches and other processing aids**

<b>Concentration of substance in mixture or article</b>	: Covers concentrations up to 10%
<b>Physical state</b>	: Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
<b>Amounts used</b>	: For each use event, covers use amounts up to 115 g/event
<b>Frequency and duration of use/exposure</b>	: Covers use up to 365 days per year Covers use up to 1 application per day Covers exposure up to 1.00 Hours per shift
<b>Other given operational conditions affecting consumers exposure</b>	: Covers skin contact area up to 857.50 cm <sup>2</sup>
<b>Area of use:</b>	: Covers use at ambient temperatures. Covers use in room size of 20 m <sup>3</sup> Covers use under typical household ventilation.

**Conditions and measures related to personal protection and hygiene****Section 3 - Exposure estimation and reference to its source**

**Website:** : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:**

**Exposure assessment (environment):** : EUSES

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 2: Glues, hobby use**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 3: Glues DIY-use (carpet glue, tile glue, wood parquet glue)**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 4: Glue from spray**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 5: Sealants**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 6: Washing car window**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 7: Pouring into radiator**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 8: Lock de-icer**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 9: Water-borne latex wall paint**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 10: Solvent-rich, high-solid, water-borne paint**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 11: Aerosol spray can**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 12: Removers (paint-, glue-, wall paper-, sealant-remover)**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 13: Fillers and putty**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 14: Plasters and floor equalisers**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 15: Modelling clay**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 16: Finger paints**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 17: Liquids**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 18: Pastes**

**Exposure assessment (human):** : ECETOC TRA consumer V3

**EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE** : Not available.

**Exposure estimation and reference to its source - Consumers: 19: Sprays**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 20: Polishes, wax/cream (floor, furniture, shoes)**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 21: Polishes, spray (furniture, shoes)**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 22: Laundry and dish-washing products**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 23: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 24: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 25: Inks and toners**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

**Exposure estimation and reference to its source - Consumers: 26: Textile dyes, finishing and impregnating products; including bleaches and other processing aids**

Exposure assessment (human): : ECETOC TRA consumer V3

EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE : Not available.

## Section 4 - GUIDANCE TO DU TO EVALUATE WHETHER HE WORKS INSIDE THE BOUNDARIES SET BY THE ES

<b>Environment</b>	<p>: 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.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Further details on scaling and control technologies are provided in SpERC factsheet (<a href="http://cefic.org/en/reach-for-industries-libraries.html">http://cefic.org/en/reach-for-industries-libraries.html</a>).</p>
<b>Health</b>	<p>: 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.</p>

### Additional good practice advice beyond the REACH CSA

<b>Environment</b>	: Not available.
<b>Health</b>	: Not available.