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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.

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.

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

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, 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.

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.

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	**EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.** STEL: 441 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	**EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.** STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m³ 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/m³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Local
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	174 mg/m³	Consumers	Systemic
	DNEL	Short term Inhalation	174 mg/m³	Consumers	Local
	DNEL	Long term Dermal	108 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	14.8 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	Consumers	Systemic

PNECs

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.

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: 0.78compared 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.

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)

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	ASPIRATION HAZARD - Category 1
ethylbenzene	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

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	$LogP_{ow}$	BCF	Potential
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low

12.4 Mobility in soil

SECTION 12: Ecological information

Soil/water partition coefficient (K_{OC}) : 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.

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)

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

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Prepared by : EHS

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**
Number of the ES	:	1
Industry Association	:	CEPE
Processes and activities covered by the exposure scenario	:	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

Contributing scenario controlling environmental exposure for 1:

Product characteristics	:	Substance is isomeric mixture. Readily biodegradable
Amounts used	:	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
Frequency and duration of use	:	Emission days: 365
Environment factors not influenced by risk management	:	Local freshwater dilution factor: 10 Local marine water dilution factor: 100

Other conditions affecting environmental exposure	:	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
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	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 >= (%): 93.6 If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= (%): 0
Organisational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Conditions and measures related to sewage treatment plant	:	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_{Safe}) based on release following total wastewater treatment removal: 4.6E+03 kg/day Assumed domestic sewage treatment plant flow: 2000 m³/d
Conditions and measures related to external treatment of waste for disposal	:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	:	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)

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

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

Advice on general occupational hygiene	:	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

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

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

Advice on general occupational hygiene	:	Ensure material transfers are under containment or extract ventilation.

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

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

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

Advice on general occupational hygiene	:	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

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

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

Advice on general occupational hygiene	:	Indoor or outdoor use Avoid carrying out activities involving exposure for more than 1 hour.

Contributing scenario controlling worker exposure for 6: Material transfers

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

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

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

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

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

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

Advice on general occupational hygiene	:	Outdoor use Ensure operation is undertaken outdoors.
Respiratory protection	:	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

Product characteristics	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100% (unless stated differently).
Frequency and duration of use/exposure	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Indoor use Carry out in a vented booth provided with laminar airflow.

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

Advice on general occupational hygiene	:	Outdoor use Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 4 hours.
Respiratory protection	:	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

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

Other conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Indoor use Provide extract ventilation to points where emissions occur.

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

Advice on general occupational hygiene	:	Indoor use-Avoid carrying out activities involving exposure for more than 4 hours. Outdoor use-Ensure operation is undertaken outdoors.
Respiratory protection	:	Outdoor use Wear a respirator conforming to EN140 with type A filter or better.

Contributing scenario controlling worker exposure for 10: Laboratory activities

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

Product characteristics	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
Concentration of substance in mixture or article	:	Indoor or outdoor use Limit the substance in product to 5%
Frequency and duration of use/exposure	:	Covers daily exposures up to 8 hours
Other conditions affecting workers exposure	:	Assumes use at not more than 20°C above ambient temperature, unless stated differently. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Indoor use Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

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

Advice on general occupational hygiene	:	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

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

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

Advice on general occupational hygiene	:	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

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

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

Advice on general occupational hygiene	:	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

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).
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	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

Number of the ES : 1

Industry Association : CEPE

Processes and activities covered by the exposure scenario : 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 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics	:	Substance is isomeric mixture. Readily biodegradable
Amounts used	:	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
Frequency and duration of use	:	Emission days: 365
Environment factors not influenced by risk management	:	Local freshwater dilution factor: 10 Local marine water dilution factor: 100
Other conditions affecting environmental exposure	:	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
Conditions and measures related to sewage treatment plant	:	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_{Safe}) based on release following total wastewater treatment removal: 4.6E+03 kg/day Assumed domestic sewage treatment plant flow: 2,000 m³/d
Conditions and measures related to external treatment of waste for disposal	:	External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	:	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

Concentration of substance in mixture or article	:	Covers concentrations up to 30 %
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 9 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 4 Hours per shift
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 35.73 cm²
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

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

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

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 4: Glue from spray

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

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 5: Sealants

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

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 6: Washing car window

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, covers use amounts up to 0.5 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 0.02 Hours per shift
Area of use:	:	Covers use in a one car garage (34 m³) under typical ventilation. Covers use in room size of 34 m³ Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 7: Pouring into radiator

Concentration of substance in mixture or article	:	Covers concentrations up to 10 %
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 2,000 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 0.17 Hours per shift
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428 cm²
Area of use:	:	Covers use in a one car garage (34 m³) under typical ventilation. Covers use in room size of 34 m³ Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 8: Lock de-icer

Concentration of substance in mixture or article	:	Covers concentrations up to 50 %
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 4 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 0.25 Hours per shift
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 214.40 cm²
Area of use:	:	Covers use in a one car garage (34 m³) under typical ventilation. Covers use in room size of 34 m³ 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

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

Frequency and duration of use/exposure	:	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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428.75 cm^2
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m^3 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

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

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 11: Aerosol spray can

Concentration of substance in mixture or article	:	Covers concentrations up to 21 %
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 215 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 0.33 Hours per shift
Area of use:	:	Covers use in a one car garage (34 m^3) under typical ventilation. Covers use in room size of 34 m^3 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)

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

Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ 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 cm²
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ 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 cm²
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ 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 cm²
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m³ Covers use under typical household ventilation.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 16: Finger paints

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 1.35 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 0.03 Hours per shift
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 254.40 cm^2
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m^3 Covers use under typical household ventilation.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 17: Liquids

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

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 18: Pastes

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

Concentration of substance in mixture or article	:	Covers concentrations up to 45 %
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 73 g/event
Frequency and duration of use/exposure	:	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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428.75 cm²
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ 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)

Concentration of substance in mixture or article	:	Leather tanning, dye, finishing, impregnation and care products: Covers concentrations up to 25% Polishes and wax blends: Covers concentrations up to 10%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	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
Frequency and duration of use/exposure	:	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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 430.00 cm²
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ 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)

Concentration of substance in mixture or article	:	Leather tanning, dye, finishing, impregnation and care products: Covers concentrations up to 33 % Polishes and wax blends: Covers concentrations up to 48%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	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
Frequency and duration of use/exposure	:	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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 430.00 cm²
Area of use:	:	Covers use under typical household ventilation. Covers use in room size of 20 m³ 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

Concentration of substance in mixture or article	:	Covers concentrations up to 5%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 15 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 use up to 0.50 Hours per shift
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 857.50 cm²
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m³ 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)

Concentration of substance in mixture or article	:	Covers concentrations up to 5%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 27 g/event
Frequency and duration of use/exposure	:	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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 857.50 cm²
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m³ 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)

Concentration of substance in mixture or article	:	Covers concentrations up to 15%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 35 g/event
Frequency and duration of use/exposure	:	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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428.00 cm²
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m³ 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

Concentration of substance in mixture or article	:	Covers concentrations up to 10%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 40 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 2.20 Hours per shift
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 71.40 cm²
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m³ 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

Concentration of substance in mixture or article	:	Covers concentrations up to 10%
Physical state	:	Liquid, vapour pressure > 10 Pa (Standard Temperature and Pressure)
Amounts used	:	For each use event, covers use amounts up to 115 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 857.50 cm²
Area of use:	:	Covers use at ambient temperatures. Covers use in room size of 20 m³ 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

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).
Health	:	Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment	:	Not available.
Health	:	Not available.