SAFETY DATA SHEET

Date of issue/Date of revision : 11 November 2022 **Version** : 1

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

1.1 Product identifier

Product name : THINNER 21-22

EC number : Not available.

REACH Registration number

Registration number	Legal entity
01-2119455851-35	-

CAS number : Not available.

Product code : 00109490

Product description :

Product type : Liquid.

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-Industrial

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

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS : Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : UVCB

Classification according to UK CLP/GHS

Flam. Liq. 3, H226
STOT SE 3, H335
STOT SE 3, H336
Asp. Tox. 1, H304
Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Flammable liquid and vapour.
May be fatal if swallowed and enters airways.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

Precautionary statements

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

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour.

Response : Collect spillage. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
P102, P101, P210, P271, P273, P261, P391, P304 + P312, P301 + P310, P331, P405, P403 + P233, P501

Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

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

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

PBT	P	B	T	vPvB	vP	vB
No	N/A	N/A	No	N/A	N/A	N/A

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 : UVCB

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
Solvent naphtha (petroleum), light arom. Nota(s) P	REACH #: 01-2119486773-24 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	52.22	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 **See Section 16 for the full text of the H statements declared above.**	[1]

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

[1] Constituent

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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

SECTION 4: First aid measures

Skin contact : Adverse symptoms may include the following:
irritation
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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides

5.3 Advice for firefighters

Special protective actions 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.

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

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.

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. 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

Store between the following temperatures: 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 oxidising 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

No exposure limit value known.

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Solvent naphtha (petroleum), light arom. Nota(s) P	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m³	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.41 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m³	General population	Local
	DNEL	Short term Inhalation	640 mg/m³	General population	Local
	DNEL	Long term Inhalation	837.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/m³	Workers	Systemic

PNECs

No PNECs available

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. The user must check that the final choice of type of glove selected for handling this

SECTION 8: Exposure controls/personal protection

product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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

Recommended: Viton® thickness > 0.71 mm

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.

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.

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. Wear a respirator conforming to EN140. 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Clear.

Odour : Characteristic.

Odour threshold : Not available.

Melting point/freezing point : May start to solidify at the following temperature: -25.4°C (-13.7°F) This is based on data for the following ingredient: 1,2,3-trimethylbenzene. Weighted average: -59.13°C (-74.4°F)

Initial boiling point and boiling range : >37.78°C (>100°F)

Flammability (solid, gas) : liquid

Upper/lower flammability or explosive limits : Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum), light aromatic)

Flash point : Closed cup: 38°C (100.4°F)

Auto-ignition temperature : 505°C (941°F)

Decomposition temperature :

pH : Not applicable.
Not applicable. insoluble in water.

Viscosity : Kinematic (40°C): <14 mm^2/s

Solubility(ies) :

Media	Result
cold water	Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/water : Not applicable.

SECTION 9: Physical and chemical properties

Vapour pressure : Not available.

Relative density : 0.88

Vapour density : Highest known value: 4.2 (Air = 1) (cumene). Weighted average: 4.09 (Air = 1)

Explosive properties : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties : Product does not present an oxidizing hazard.

Particle characteristics

Median particle size : Not applicable.

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 : Depending on conditions, decomposition products may include the following materials: carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), light arom. Nota (s) P	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Solvent naphtha (petroleum), light arom. Nota(s) P	8400	3480	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Skin : Not available.

Eyes : Not available.

Respiratory : Not available.

Sensitisation

Conclusion/Summary

Skin : Not available.

Respiratory : Not available.

SECTION 11: Toxicological information

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)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), light arom. Nota(s) P	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom. Nota(s) P	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking

Ingestion : Adverse symptoms may include the following:
nausea or vomiting

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.

SECTION 11: Toxicological information

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : 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.

Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light arom. Nota(s) P	Acute LC50 8.2 mg/l	Fish	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

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
1,2,4-trimethylbenzene	3.63	120.23	low
mesitylene	3.42	186.21	low
1,2,3-trimethylbenzene	3.66	194.98	low
xylene	3.12	7.4 to 18.5	low
cumene	3.55	35.48	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
THINNER 21-22	No	N/A	N/A	No	N/A	N/A	N/A

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.

Waste catalogue

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	Waste catalogue
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.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1268	UN1268	UN1268	UN1268
14.2 UN proper shipping name	PETROLEUM DISTILLATES, N.O.S.	PETROLEUM DISTILLATES, N.O.S.	PETROLEUM DISTILLATES, N.O.S.	PETROLEUM DISTILLATES, N.O.S.
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(1,2,4-trimethylbenzene, mesitylene)	Not applicable.

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

SECTION 14: Transport information

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 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.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

UK (GB) /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.

Ozone depleting substances

Not listed.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c
E2

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

SECTION 16: Other information

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

History

Date of issue/ Date of revision : 11/11/2022

Date of previous issue : No previous validation

Prepared by : EHS

Version : 1

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)

Consumer

Identification of the substance or mixture

Product definition : UVCB

Code : 00109490

Product name : THINNER 21-22

Section 1 - Title

Short title of the exposure scenario : [918-668-5] Use in coatings - 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, ERC08b
Market sector by type of chemical product: PC01, PC04, 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
Inks and toners - PC18
Polishes, wax/cream (floor, furniture, shoes) - PC23, PC31
Polishes, spray (furniture, shoes) - PC23, PC31
Liquids - PC24
Pastes - PC24
Sprays - PC24
Process Aids - PC34
Bleaching aid. - 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 complex UVCB. Predominantly hydrophobic
Amounts used	:	Fraction of EU tonnage used in region: 0.1 Regional use tonnage: 270 tonnes/year Fraction of Regional tonnage used locally: 0.0005 Annual site tonnage: 13 tonnes/year Maximum daily site tonnage: 37 kg/day
Frequency and duration of use	:	Emission days: 365 - Continuous release
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): 0.985 Release fraction to wastewater from process (initial release prior to RMM): 0.01 Release fraction to soil from process (initial release prior to RMM): 0.005
Conditions and measures related to sewage treatment plant	:	Estimated substance removal from wastewater via on-site sewage treatment: 93.6 % Maximum allowable site tonnage (M_{Safe}) based on release following total wastewater treatment removal: 680 kg/day Assumed on-site 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 consumer exposure for 2: Glues, hobby use

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 30%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	Covers exposure up to 9 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers exposure up to 1 application per day For each use event, covers use amounts up to 4 h/event
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 35.73 cm² 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 3: Glues DIY-use (carpet glue, tile glue, wood parquet glue)

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 30%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 6390 g
Frequency and duration of use/exposure	:	Covers use up to 1 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 6 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 110 cm² Covers use in room size of 20 m³ Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 30%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 85.05 g
Frequency and duration of use/exposure	:	Covers use up to 6 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 4 h/event
Other given operational conditions affecting consumers exposure	:	Covers use in room size of 20 m^3 Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 5: Sealants

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 30%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 75 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 1 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 35.73 cm^2 Covers use in room size of 20 m^3 Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 1%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 0.5 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 0.02 hours
Other given operational conditions affecting consumers exposure	:	Covers use in a one car garage (34 m^3) under typical ventilation. Covers use in room size of 34 m^3 No specific risk management measure identified beyond those operational conditions stated.

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 200 Pa
Amounts used	:	For each use event, covers use amounts up to 2000 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 0.17 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428 cm^2 Covers use in a one car garage (34 m^3) under typical ventilation. Covers use in room size of 34 m^3 No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 50%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 4 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 0.25 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 214 cm^2 Covers use in a one car garage (34 m^3) under typical ventilation. Covers use in room size of 34 m^3 No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 1.5%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	Coatings and paints, thinners, paint removers: For each use event, covers use amounts up to 2260 g Non-metal surface treatment products: For each use event, covers use amounts up to 2760 g
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
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428.75 cm^2 Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 27.5%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	Covers use up to 744 g
Frequency and duration of use/exposure	:	Covers use up to 6 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 2.20 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428.75 cm^2 Covers use in room size of 20 m^3 Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers exposure up to 50%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	Covers use up to 215 g

Frequency and duration of use/exposure	:	Covers use up to 2 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 0.33 hours
Other given operational conditions affecting consumers exposure	:	Covers use in a one car garage (34 m^3) under typical ventilation. Covers use in room size of 34 m^3 No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 50%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 491 g
Frequency and duration of use/exposure	:	Covers use up to 3 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 2.00 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 857.50 cm^2 Covers use under typical household ventilation. Covers use in room size of 20 m^3 No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 2%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 85 g
Frequency and duration of use/exposure	:	Covers use up to 12 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 4 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 35.73 cm^2 Covers use in room size of 20 m^3 Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 2%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 13800 g
Frequency and duration of use/exposure	:	Covers use up to 12 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 2.00 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 857.50 cm^2 Covers use under typical household ventilation. Covers use in room size of 20 m^3 No specific risk management measure identified beyond those operational conditions stated.

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	:	Unless otherwise stated. Covers concentrations up to 1%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, assumes swallowed amount of 1 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 254.4 cm² No specific risk management measure identified beyond those operational conditions stated.

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	:	Avoid using at a product concentration greater than 5%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, assumes swallowed amount of 1.35 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 254.40 cm²

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 17: Inks and toners

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 10%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 40 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 2.20 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 71.40 cm² Covers use under typical household ventilation. Covers use in room size of 20 m³ No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 18: Polishes, wax/cream (floor, furniture, shoes)

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 50%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	Leather treatment products (Tanning of leather. Leather dyeing. Leather finishing.): For each use event, covers use amounts up to 56 g Polishes and wax blends: For each use event, covers use amounts up to 142 g
Frequency and duration of use/exposure	:	Covers use up to 29 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 1.23 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 430.00 cm² Covers use under typical household ventilation. Covers use in room size of 20 m³ No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 19: Polishes, spray (furniture, shoes)

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 50%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	Leather treatment products (Tanning of leather. Leather dyeing. Leather finishing.): For each use event, covers use amounts up to 56 g Polishes and wax blends: For each use event, covers use amounts up to 35 g
Frequency and duration of use/exposure	:	Covers use up to 8 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 0.33 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 430.00 cm^2 Covers use under typical household ventilation. Covers use in room size of 20 m^3 No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 20: Liquids

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 100%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 2200 g
Frequency and duration of use/exposure	:	Covers use up to 4 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 0.17 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 468.00 cm^2 Covers use in a one car garage (34 m^3) under typical ventilation. Covers use in room size of 34 m^3 No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 21: Pastes

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 20%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 34 g
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 No specific risk management measure identified beyond those operational conditions stated.

Conditions and measures related to personal protection and hygiene

Contributing scenario controlling consumer exposure for 22: Sprays

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 50%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 73 g
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

Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 428.75 cm² Covers use under typical household ventilation. Covers use in room size of 20 m³ No specific risk management measure identified beyond those operational conditions stated.
Conditions and measures related to personal protection and hygiene		

Contributing scenario controlling consumer exposure for 23: Process Aids

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 10%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 115 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 1 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 857.50 cm² Covers use in room size of 20 m³ Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.
Conditions and measures related to personal protection and hygiene		

Contributing scenario controlling consumer exposure for 24: Bleaching aid.

Concentration of substance in mixture or article	:	Unless otherwise stated. Covers concentrations up to 10%
Physical state	:	liquid - Vapour pressure 200 Pa
Amounts used	:	For each use event, covers use amounts up to 115 g
Frequency and duration of use/exposure	:	Covers use up to 365 days per year Covers use up to 1 application per day For each use event, covers use amounts up to 1 hours
Other given operational conditions affecting consumers exposure	:	Covers skin contact area up to 857.50 cm² Covers use in room size of 20 m³ Covers use under typical household ventilation. No specific risk management measure identified beyond those operational conditions stated.
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):	:	Hydrocarbon Block Method (Petrorisk)
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
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
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

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

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

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

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

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

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

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

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

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

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

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

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

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 17: Inks and toners

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 18: Polishes, wax/cream (floor, furniture, shoes)

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 19: Polishes, spray (furniture, shoes)

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 20: Liquids

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 21: Pastes

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 22: Sprays

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 23: Process Aids

Exposure assessment (human): : ECETOC TRA, consumer

Exposure estimation and reference to its source : not available

Exposure estimation and reference to its source - Consumers: 24: Bleaching aid.

Exposure assessment (human):	:	ECETOC TRA, consumer
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	:	Not applicable for wide dispersive uses
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)

Professional

Identification of the substance or mixture

Product definition : UVCB

Code : 00109490

Product name : THINNER 21-22

Section 1 - Title

Short title of the exposure scenario : [918-668-5] Use in coatings - Professional

List of use descriptors :
Identified use name: Use in coatings-Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC10, PROC13, PROC15, PROC19, PROC11
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
Market sector by type of chemical product: PC09a

Environmental contributing scenarios :

Health Contributing scenarios :
General exposures (closed systems) - PROC01, PROC02, PROC03
Film formation - air drying - PROC04
Preparation of material for application - PROC05
Manual spraying - PROC11
Material transfers - PROC08a, PROC08b
Roller, spreader, flow application - PROC10
Dipping, immersion and pouring - PROC13
Laboratory activities - PROC15
Filling of equipment from drums or containers - PROC08a, PROC08b
Use in contained systems - PROC01, PROC02, PROC03
Drum/batch transfers - PROC08a, PROC08b
Hand application - fingerpaints, pastels, adhesives - PROC19

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 complex UVCB. Predominantly hydrophobic

Amounts used : Fraction of EU tonnage used in region: 0.1
Regional use tonnage: 2200 Tonnes/year
Fraction of Regional tonnage used locally: 1
Annual site tonnage: 1.1Tonnes/year
Maximum daily site tonnage: 3 kg/day

Frequency and duration of use : Continuous release 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): 0.98 Release fraction to wastewater from process (initial release prior to RMM): 0.01 Release fraction to soil from process (initial release prior to RMM): 0.01
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 soil. No specific waste water pretreatment required. Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%): 0 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 on-site 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: 3300kg/day Assumed on-site sewage treatment plant flow: 2000 m^3/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 exposures (closed systems)

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Ensure material transfers are under containment or extract ventilation.
Product safety-related measures	:	No other specific measures identified.

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

Contributing scenario controlling worker exposure for 3: Film formation - air drying

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented

Ventilation control measures	:	Indoor: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out operation for more than 1 hour. Outdoor: Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 1 hour.

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

Contributing scenario controlling worker exposure for 4: Preparation of material for application

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings (professional use) Indoor: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Avoid carrying out operation for more than 15 minutes. Outdoor: Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 15 minutes.

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

Contributing scenario controlling worker exposure for 5: Manual spraying

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Indoor: Carry out in a vented booth or extracted enclosure. Limit the substance content in the product to 25%. Avoid carrying out operation for more than 15 minutes. Outdoor: Ensure operation is undertaken outdoors. Limit the substance content in the product to 5%. Avoid carrying out operation for more than 15 minutes. Outdoor: Ensure operation is undertaken outdoors. Limit the substance content in the product to 25%. Avoid carrying out operation for more than 1 hour. Wear a respirator conforming to EN140 with type A/P2 filter or better.

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

Respiratory protection	:	Wear a respirator conforming to EN140 with type A/P2 filter or better.

Contributing scenario controlling worker exposure for 6: Material transfers

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Non-dedicated facility: Provide enhanced general ventilation by mechanical means. Avoid carrying out operation for more than 1 hour. Dedicated facility: Ensure transfer points are supplied with extract ventilation.

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

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

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Indoor: Provide enhanced general ventilation by mechanical means. Avoid carrying out operation for more than 1 hour. Outdoor: Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 15 minutes.

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

Contributing scenario controlling worker exposure for 8: Dipping, immersion and pouring

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Indoor: Provide extract ventilation to points where emissions occur. Avoid carrying out operation for more than 1 hour. Outdoor: Ensure operation is undertaken outdoors. Avoid carrying out operation for more than 15 minutes.

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

Contributing scenario controlling worker exposure for 9: Laboratory activities

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented

Ventilation control measures	:	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan.

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

Contributing scenario controlling worker exposure for 10: Filling of equipment from drums or containers

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Ensure material transfers are under containment or extract ventilation.

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

Contributing scenario controlling worker exposure for 11: Use in contained systems

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Ensure material transfers are under containment or extract ventilation.

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

Contributing scenario controlling worker exposure for 12: Drum/batch transfers

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented
Ventilation control measures	:	Non-dedicated facility: Provide enhanced general ventilation by mechanical means. Avoid carrying out operation for more than 1 hour. Dedicated facility: Ensure transfer points are supplied with extract ventilation.

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

Contributing scenario controlling worker exposure for 13: Hand application - fingerpaints, pastels, adhesives

Concentration of substance in mixture or article	:	Covers percentage substance in the product up to 100 %.
Physical state	:	Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature and Pressure
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. Assumes a good basic standard of occupational hygiene is implemented

Ventilation control measures : Indoor:
Ensure doors and windows are opened. Limit the substance content in the product to 25%. Avoid carrying out operation for more than 1 hour.

Outdoor:
Ensure operation is undertaken outdoors. Limit the substance content in the product to 25%. Avoid carrying out operation for more than 15 minutes.

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

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

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

Exposure assessment (environment): : Hydrocarbon Block Method (Petrorisk)

Exposure estimation and reference to its source : Not available.

Exposure estimation and reference to its source - Workers: 2: 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: 3: Film formation - air drying

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: 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: 5: 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: 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: 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: 9: 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: 10: Filling 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: 11: Use in contained 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: 12: Drum/batch 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: 13: 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.

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.