

SAFETY DATA SHEET

Date of issue/Date of revision

: 2 October 2024

Version

: 6



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

1.1 Product identifier

Product name : THINNER 21-06 (AMERCOAT 65)

Product code : 00153599

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-Professional

Product use : Professional applications, Used by spraying.

Uses advised against : Product is not intended, labelled or packaged for consumer use.

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

National advisory body/Poison Centre

Telephone number : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

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]

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SECTION 2: Hazards identification

Flam. Liq. 3, H226
Acute Tox. 4, H332
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335
STOT RE 2, H373
Asp. Tox. 1, H304
Aquatic Chronic 3, H412

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

2.2 Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

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

Precautionary statements

Prevention

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.

Response

: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Storage

: 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.

P210, P260, P301 + P310, P331, P403 + P233, P501

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

: Not applicable.

Tactile warning of danger

: Not applicable.

| | |
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SECTION 2: Hazards identification

2.3 Other hazards

| | | | | | | | |
|---|------------|----------|----------|----------|-------------|-----------|-----------|
| Product meets the criteria for PBT or vPvB : | PBT | P | B | T | vPvB | vP | vB |
| | N/A | N/A | N/A | Yes | 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 : Multi-constituent substance

| Product/ingredient name | Identifiers | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|-------------------------|--|-------------|---|---|------|
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | 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 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] |
| 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 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above. | ATE [Inhalation (vapours)] = 17.8 mg/l | [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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

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Type

[1] Constituent

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

SUB codes represent substances without registered CAS Numbers.

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SECTION 4: First aid measures

4.1 Description of first aid measures

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

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** : 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, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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SECTION 5: Firefighting measures

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 harmful 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 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 flames, 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.

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.
- 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.

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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 breathe vapour or mist. Do not swallow. Avoid contact with eyes, skin and clothing. 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

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 | Working Environment Authority (Denmark, 2/2023) [xylen, alle isomere] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m ³ . STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm. |
| ethylbenzene | Working Environment Authority (Denmark, 2/2023) K. Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 217 mg/m ³ . STEL 15 minutes: 434 mg/m ³ . STEL 15 minutes: 100 ppm. |

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SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : 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 | Long term Oral | 5 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Local | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local | |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Systemic | |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic | |
| | ethylbenzene | DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| | | DMEL | Short term Inhalation | 884 mg/m ³ | Workers | Systemic |
| | | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic |
| DNEL | | Long term Inhalation | 15 mg/m ³ | General population | Systemic | |
| DNEL | | Long term Inhalation | 77 mg/m ³ | Workers | Systemic | |
| DNEL | | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local | |

PNECs

| 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 | - |
| | ethylbenzene | - | Fresh water | 0.1 mg/l |
| - | | Marine water | 0.01 mg/l | Assessment Factors |
| - | | Sewage Treatment Plant | 9.6 mg/l | Assessment Factors |
| - | | Fresh water sediment | 13.7 mg/kg dwt | Equilibrium Partitioning |
| - | | Marine water sediment | 1.37 mg/kg dwt | Equilibrium Partitioning |
| - | | Soil | 2.68 mg/kg dwt | Equilibrium Partitioning |
| - | | Secondary Poisoning | 20 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

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SECTION 8: Exposure controls/personal protection

- 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. Use eye protection according to EN 166.
- 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 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®-polyethylene (PE)-polyvinyl alcohol (PVA)
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.
- 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 : Colourless.

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SECTION 9: Physical and chemical properties

| | |
|--|--|
| Odour | : Aromatic. |
| Melting point/freezing point | : Not determined. |
| Boiling point or initial boiling point and boiling range | : >37.78°C |
| Flammability | : Not determined. There are no data available on the mixture itself. |
| Lower and upper explosion limit | : Not available. |
| Flash point | : Closed cup: 24°C |
| Auto-ignition temperature | : 460°C (860°F) |
| Decomposition temperature | : Stable under recommended storage and handling conditions (see Section 7). |
| pH | : Not applicable. insoluble in water. |
| Viscosity | : <input checked="" type="checkbox"/> Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): <14 mm ² /s |
| Solubility | : |

| Media | Result |
|------------|-------------|
| cold water | Not soluble |

Partition coefficient n-octanol/water (log Pow) : Not applicable.

Vapour pressure : Not available.

Relative density : 0.87

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

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.

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

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|------------------------|---------|-----------|----------|
| <input checked="" type="checkbox"/> xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |

Conclusion/Summary :
 Not available.

Acute toxicity estimates

| Route | ATE value |
|--|-----------------------------|
| <input checked="" type="checkbox"/> Dermal Inhalation (vapours) | 2009.81 mg/kg 11.72 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--------------------------|---------|-------|-----------------|-------------|
| <input checked="" type="checkbox"/> xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

Skin : Not available.
 Causes skin irritation.

Eyes : Not available.
 Causes serious eye irritation.

Respiratory : Not available.
 Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met.

Respiratory : Not available.
 Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary

Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary

Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary

Based on available data, the classification criteria are not met.

Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|------------------------------|
| xylene | Category 3 | - | Respiratory tract irritation |

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Conclusion/Summary :

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Conclusion/Summary :

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

Conclusion/Summary :

May be fatal if swallowed and enters airways.

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** : 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** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Potential chronic health effects

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SECTION 11: Toxicological information

- 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.
- Reproductive toxicity** : No known significant effects or critical hazards.
- Other information** : Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Based on available data, the classification criteria are not met.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---------------------------------|-------------------------------------|----------|
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - <i>Ceriodaphnia dubia</i> | - |

Conclusion/Summary : Not available.

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| ethylbenzene | - | 79 % - Readily - 10 days | - | - |

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

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |

12.4 Mobility in soil

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

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SECTION 12: Ecological information

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|-------------------------|-----|-----|-----|-----|------|-----|-----|
| XYLENES | N/A | N/A | N/A | Yes | N/A | N/A | N/A |

12.6 Endocrine disrupting properties

Based on available data, the classification criteria are not met.

12.7 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 :

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

| | |
|-----------------------------|---|
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SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID number | UN1307 | UN1307 | UN1307 | UN1307 |
| 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. | Yes. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

Additional information

- ADR/RID** : None identified.
- ADN** : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
- IMDG** : None identified.
- IATA** : None identified.

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 Maritime transport in bulk according to IMO instruments : Not applicable.

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](#)

| Product/ingredient name | Entry Number (REACH) |
|---|------------------------|
| <input checked="" type="checkbox"/> XYLENES | 3 |

Labelling : Not applicable.

Explosive precursors : Not applicable.

[Ozone depleting substances \(1005/2009/EU\)](#)

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SECTION 15: Regulatory information

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| Category |
|----------|
| P5c |

National regulations

Product registration number : PR-1278259

Fire class : 1

Executive Order No. 1795/2015

| Ingredient name | Annex I Section A | Annex I Section B |
|---|-------------------|-------------------|
|  ethylbenzene | Listed | - |

MAL-code : 5-3

Protection based on MAL : **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 5-3

Application: When spraying in new* booths if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or

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SECTION 15: Regulatory information

booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances : Not listed

Carcinogenic waste : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

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

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

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

| | |
|-----------------------------|--|
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| THINNER 21-06 (AMERCOAT 65) | |

SECTION 16: Other information

| Classification | Justification |
|---|---|
| Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

| | |
|---|--|
| Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 STOT RE 2 STOT SE 3 | ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
|---|--|

History

Date of issue/ Date of revision : 2 October 2024

Date of previous issue : 28 June 2022

Prepared by : EHS

Version : 6

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 : 00153599
Product name : THINNER 21-06 (AMERCOAT 65)

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 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 operational conditions of use 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 \geq (%): 93.6 If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of \geq (%): 0 |
| Organisational measures to prevent/limit release from site | : Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. |
| Conditions and measures related to municipal sewage treatment plant | : Estimated substance removal from wastewater via municipal sewage treatment: 93.6% Total efficiency of removal from wastewater after onsite and offsite (domestic 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 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 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |

| | |
|--|---|
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 per day. |

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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 %. |
| Frequency and duration of use/exposure | : Covers daily exposures up to 8 hours |
| Other operational conditions affecting worker 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 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 | <p>: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).</p> |
| Health | <p>: Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p> |

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.