



# SAFETY DATA SHEET

## EPOTEC THINNERS 107

Infosafe No.: LQ40D

Version No.: 1.0

ISSUED Date: 04/08/2015

ISSUED BY COATING TECHNOLOGIES  
LTD

### 1. IDENTIFICATION

**GHS Product Identifier**

EPOTEC THINNERS 107

**Product Code**

99-700

**Company Name**

COATING TECHNOLOGIES LTD

**Address**

16 Aetna Place Henderson  
Auckland 0612 NZ

**Telephone/Fax Number**

Tel: +64 9 837 0897  
Fax: (09) 837 3736

**Emergency phone number**

Poisons Information Centre (AU:131 126; NZ:0800 764 766)

**Recommended use of the chemical and restrictions on use**

Thinning and Clean Up of Solvent Based Paints

### 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.  
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2012 Transport of Dangerous Goods on Land.

3.1B - Flammable liquid: high hazard

6.1D (Dermal) - Substance that is acutely toxic

6.1D (Inhalation - vapours, dusts or mists) - Substance that is acutely toxic

6.1D (Oral) - Substance that is acutely toxic

6.3A - Substance that is irritating to the skin

6.4A - Substance that is irritating to the eyes

6.7B - Substance that is a suspected human carcinogen

6.8B - Substance that is suspected to be a human reproductive or developmental toxicant

6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems

9.1D - Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action

9.3C - Substance that is harmful to terrestrial vertebrates

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure by inhalation, by ingestion.  
H401 Toxic to aquatic life.  
H433 Harmful to terrestrial vertebrates.

**Pictogram (s)**

Flame, Health hazard, Exclamation mark



**Precautionary statement – Prevention**

P102 Keep out of reach of children.  
P103 Read label before use.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash contaminated skin thoroughly after handling  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

**GENERAL:**

P101 If medical advice is needed, have product container or label at hand.  
P314 Get medical advice/attention if you feel unwell.  
P308+P313 IF exposed or concerned: Get medical advice/ attention.  
P370+P378 In case of fire: Use foam, dry chemical powder or carbon dioxide for extinction.

**INHALATION:**

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**INGESTION:**

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

**EYES:**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**SKIN:**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before re-use.

**Precautionary statement – Storage**

P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Precautionary statement – Disposal**

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

**Ingredients**

| Name         | CAS       | Proportion |
|--------------|-----------|------------|
| Xylene       | 1330-20-7 | 60-100 %   |
| Ethylbenzene | 100-41-4  | 10-20 %    |
| 2-Butanone   | 78-93-3   | 1-10 %     |

### 4. FIRST-AID MEASURES

---

**Inhalation**

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

**Skin**

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

**Eye contact**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities**

Eyewash, safety shower and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre or a doctor at once.(0800 764 766)

### 5. FIRE-FIGHTING MEASURES

---

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not available normal foam can be used.

**Unsuitable Extinguishing Media**

Do not use water jet.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.

**Specific Hazards Arising From The Chemical**

Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

**Hazchem Code**

•3YE

**Decomposition Temperature**

Not available

### Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed material. If safe to do so, remove containers from path of fire. Do not allow run-off from fire fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

---

### Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## 7. HANDLING AND STORAGE

---

### Precautions for Safe Handling

Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers tightly closed. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.

It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

#### Xylene

TWA: 50 ppm, 217 mg/m<sup>3</sup>

#### Ethyl benzene

TWA: 100 ppm, 434 mg/m<sup>3</sup>

STEL: 125 ppm, 543 mg/m<sup>3</sup>

#### 2-Butanone

TWA: 150 ppm, 445 mg/m<sup>3</sup>

STEL: 300 ppm, 890 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### Biological Limit Values

Name: Xylenes

Determinant: Methylhippuric acids

Specimen: Creatinine in urine.

Value: 1.5g/g

Sampling time: End of shift.

Name: Ethylbenzene

Determinant: Sum of mandelic acid and phenylglyoxylic acid.

Specimen: Creatinine in urine.

Value: 0.15 g/g

Sampling time: End of shift at end of work week.

Name: 2-Butanone (MEK)

Determinant: MEK in urine

Sampling time: End of Shift

Value: 2 mg/L

Source: American Conference of Industrial Hygienists (ACGIH)

### Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:2004: Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Properties                | Description   | Properties                | Description               |
|---------------------------|---------------|---------------------------|---------------------------|
| Appearance                | Clear liquid  | Odour                     | Aromatic and Ketone Odour |
| Decomposition Temperature | Not available | Melting Point             | Not available             |
| Boiling Point             | Not available | Solubility in Water       | Not available             |
| Specific Gravity          | 0.86          | pH                        | Not available             |
| Vapour Pressure           | Not available | Vapour Density (Air=1)    | Not available             |
| Evaporation Rate          | Not available | Odour Threshold           | Not available             |
| Viscosity                 | Not available | Partition Coefficient: n- | Not available             |

| Properties                | Description              | Properties               | Description      |
|---------------------------|--------------------------|--------------------------|------------------|
|                           |                          | octanol/water            |                  |
| Flash Point               | 11.5°C (Abel Closed Cup) | Flammability             | Highly flammable |
| Auto-Ignition Temperature | Not available            | Flammable Limits - Lower | Not available    |
| Flammable Limits - Upper  | Not available            | Explosion Properties     | Not available    |
| Oxidising Properties      | Not available            |                          |                  |

## 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with incompatible materials.

### Chemical Stability

Stable under normal conditions of handling and storage.

### Conditions to Avoid

Heat, open flames and other sources of ignition.

### Incompatible materials

Strong oxidising agents.

### Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, carbon monoxide and carbon dioxide.

### Hazardous Polymerization

Not available

## 11. TOXICOLOGICAL INFORMATION

### Toxicology Information

Toxicity data for material given below.

#### Acute Toxicity - Oral

Xylene

LD50(mouse): 1590 mg/kg

Ethylbenzene

LD50(rat): 3500 mg/kg

2-Butanone

LD50(rat): 2737 mg/kg

#### Acute Toxicity - Inhalation

Xylene

LC50(rat): 27.6 mg/L

Ethylbenzene

LC50(rat): 9.6 mg/L

#### Ingestion

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

#### Inhalation

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

#### Skin

Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

#### Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Suspected of causing cancer. Classified as a suspected human carcinogen.

Ethylbenzene is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Xylene is listed as Group 3: Not classifiable as to its carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

**Reproductive Toxicity**

Suspected of damaging fertility or the unborn child. Classified as a suspected human reproductive or developmental toxicant.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure by ingestion, by inhalation.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

---

**Ecotoxicity**

Toxic to aquatic life. Harmful to terrestrial vertebrates.

**Persistence and degradability**

Xylene and Ethylbenzene: Does not bioaccumulate significantly. Product is expected to rapidly biodegrade. Expected to persist in environment under anaerobic conditions. Oxidizes rapidly by photo-chemical reactions in air. Expected significant risk of oxygen depletion in aquatic systems.

2-Butanone: Expected to biodegrade rapidly. Considered to have negligible bioaccumulative effects.

**Mobility**

Xylene and Ethylbenzene: floats on water. Evaporates rapidly. If product enters soil, it will be mobile and may contaminate ground-water.

2-Butanone is highly volatile and will rapidly evaporate to air if released into water. Large volumes in soil could penetrate groundwater.

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

**Acute Toxicity - Fish**

Xylene

EC50(Rainbow trout) 3.3 mg/L/96h

Ethylbenzene

EC50 (Oncorhynchus mykiss (freshwater fish)): 4.2 mg/L/96h

**Acute Toxicity - Daphnia**

Ethylbenzene

EC50(Daphnia magna) 2.1 mg/L/48h

**Acute Toxicity - Algae**

Xylene

EC50(Skeletonema costatum) 10.0 mg/L/72h

Ethylbenzene

EC50(*Selenastrum capricornutum*): 4.6 mg/L/72h

#### **Acute Toxicity - Other Organisms**

Xylene

EC50(*Palaemonetes pugio* (crustacea)): 8.5 mg/L/48h

### **13. DISPOSAL CONSIDERATIONS**

---

#### **Disposal considerations**

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain flammable residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature. Controlled incineration is recommended.

#### **Product Disposal:**

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is a flammable substance and therefore can be sent to an approved high temperature incineration plant for disposal. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

#### **Container Disposal:**

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

### **14. TRANSPORT INFORMATION**

---

#### **Transport Information**

This product is classified as Dangerous Goods Class 3 Flammable Liquids

Must not be loaded in the same freight container or on the same vehicle with:

Class 1: Explosives

Division 2.1: Flammable gases

Division 2.3: Toxic gases

Division 4.2: Spontaneously combustible substances

Division 5.1: Oxidising substances

Division 5.2: Organic peroxides

Class 7: Radioactive materials unless specifically exempted

Must not be loaded in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

Division 4.3: Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

Division 4.2: Spontaneously combustible substances

Division 4.3: Dangerous when wet substances

Division 5.1: Oxidising substances

Division 5.2: Organic peroxides

#### **Marine Transport (IMO/IMDG):**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 1263

Proper Shipping Name: PAINT RELATED MATERIAL



DG Class: 3  
Packaging Group: II  
EMS No.: F-E, S-E  
Special provisions: 163 367

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1263

Proper Shipping Name: PAINT RELATED MATERIAL

Class: 3

Packing Group: II

Label: Flammable liquid

Packing Instruction: 353 (For passenger and cargo aircraft)

Packing Instruction: 364 (For cargo aircraft only)

Special provisions: A3, A72, A192

**U.N. Number**

1263

**UN proper shipping name**

PAINT RELATED MATERIAL

**Transport hazard class(es)**

3

**Packing Group**

II

**Hazchem Code**

•3YE

**Special Precautions for User**

Not available

**EPG Number**

3C1

**IERG Number**

14

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

## 15. REGULATORY INFORMATION

---

**Regulatory information**

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.  
Group Standard: Solvents (Flammable, Toxic(6.7)) Group Standard 2006.

**HSNO Approval Number**

HSR002652

## 16. OTHER INFORMATION

---

**Date of preparation or last revision of SDS**

SDS Created: August 2015

**References**

Workplace Exposure Standards and Biological Exposure Indices.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

## END OF SDS

© Copyright Chemical Safety International Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Chemical Safety International Pty Ltd.

The compilation of MSDS's displayed is the intellectual property of Chemical Safety International Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Chemical Safety International Pty Ltd.