

## Section 1. Identification

**Product name** TLX 3-40  
**SDS #** 470762  
**Code** 470762-VN02

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

**Product use** Marine engine oil  
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Supplier** Castrol BP Petco Limited Liability Company  
Unit 20.01, level 20, The Nexus , 3A-3B Ton Duc Thang street, Sai Gon ward, Ho Chi Minh City, Vietnam  
Tel: 84-28-38219596 / 38219153  
Fax: 84-28-38219603 / 38219152  
**EMERGENCY SPILL INFORMATION:** Carechem: +65 3158 1074 (24/7)

## Section 2. Hazards identification

**Classification of the substance or mixture** Not classified.

### GHS label elements

**Signal word** No signal word.  
**Hazard statements** No known significant effects or critical hazards.  
**Precautionary statements**  
**Prevention** Not applicable.  
**Response** Not applicable.  
**Storage** Not applicable.  
**Disposal** Not applicable.

**Routes of entry** Dermal contact. Eye contact. Inhalation. Ingestion.

**Other hazards which do not result in classification** Defatting to the skin.  
  
USED ENGINE OILS  
Used engine oil may contain hazardous components which have the potential to cause skin cancer.  
See Toxicological Information, section 11 of this Safety Data Sheet.

## Section 3. Composition/information on ingredients

### Substance/mixture

Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

| Ingredient name                                           | CAS number      | %         |
|-----------------------------------------------------------|-----------------|-----------|
| Distillates (petroleum), hydrotreated heavy paraffinic    | CAS: 64742-54-7 | ≥50 - ≤75 |
| Residual oils (petroleum), solvent-dewaxed                | CAS: 64742-62-7 | ≥10 - ≤25 |
| Residual oils (petroleum), hydrotreated                   | CAS: 64742-57-0 | ≥10 - ≤25 |
| Distillates (petroleum), hydrotreated light paraffinic    | CAS: 64742-55-8 | ≤3        |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | CAS: 64742-65-0 | ≤3        |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

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

## Section 4. First aid measures

### Description of necessary first aid measures

#### Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

#### Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

#### Skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. If skin irritation or rash occurs: Get medical attention.

#### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

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

### Indication of immediate medical attention and special treatment needed, if necessary

#### Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects.

#### Specific treatments

No specific treatment.

#### Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

## Section 5. Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

#### Unsuitable extinguishing media

Do not use water jet.

### Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

#### Hazardous thermal decomposition products

Combustion products may include the following:  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

## Section 5. Firefighting measures

### Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

### Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## Section 6. Accidental release measures

### 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 spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

#### 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".

### Environmental precautions

Avoid dispersal of spilled 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).

### Methods and material for containment and cleaning up

#### Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Prevent entry into sewers, water courses, basements or confined areas. 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.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. 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.

### Not suitable

Prolonged exposure to elevated temperature

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name                                           | Exposure limits                                                                                                                                                                                               |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic    | <b>Ministry of Health (Viet Nam) [mineral oil]</b><br>TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002.<br>STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002. |
| Residual oils (petroleum), solvent-dewaxed                | <b>Ministry of Health (Viet Nam) [mineral oil]</b><br>TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002.<br>STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002. |
| Residual oils (petroleum), hydrotreated                   | <b>Ministry of Health (Viet Nam) [mineral oil]</b><br>TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002.<br>STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002. |
| Distillates (petroleum), hydrotreated light paraffinic    | <b>Ministry of Health (Viet Nam) [mineral oil]</b><br>TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002.<br>STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | <b>Ministry of Health (Viet Nam) [mineral oil]</b><br>TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002.<br>STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: Mist. Issued/Revised: 10/2002. |

#### Biological exposure indices

No exposure indices known.

#### Recommended monitoring procedures

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.

#### Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### 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.

#### 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

Safety glasses with side shields.

### Skin protection

#### Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

#### Skin protection

Use of protective clothing is good industrial practice. 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. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

#### 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

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

## Section 9. Physical and chemical properties

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

### Appearance

#### Physical state

Liquid.

#### Colour

Brown. [Dark]

#### Odour

Unfragranced [Slight]

#### Odour threshold

Not available.

#### pH

Not applicable.

#### Melting point/freezing point

Not available.

#### Boiling point or initial boiling point and boiling range

Not available.

#### Flash point

Closed cup: >200°C (>392°F) [Pensky-Martens ASTM D 93]

#### Evaporation rate

Not available.

#### Flammability

Not available.

#### Lower and upper explosion limit/flammability limit

Not available.

#### Vapour pressure

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## Section 9. Physical and chemical properties

| Ingredient name                                           | Vapour Pressure at 20 °C |       |             | Vapour pressure at 50 °C |     |        |
|-----------------------------------------------------------|--------------------------|-------|-------------|--------------------------|-----|--------|
|                                                           | mm Hg                    | kPa   | Method      | mm Hg                    | kPa | Method |
| Distillates (petroleum), hydrotreated heavy paraffinic    | <0.07501                 | <0.01 | ASTM D 5191 |                          |     |        |
| Residual oils (petroleum), solvent-dewaxed                | <0.07501                 | <0.01 | ASTM D 5191 |                          |     |        |
| Residual oils (petroleum), hydrotreated                   | <0.07501                 | <0.01 | ASTM D 5191 |                          |     |        |
| Distillates (petroleum), hydrotreated light paraffinic    | <0.07501                 | <0.01 | ASTM D 5191 |                          |     |        |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | <0.07501                 | <0.01 | ASTM D 5191 |                          |     |        |

**Relative vapour density**

Not available.

**Density**

<1000 kg/m<sup>3</sup> (<1 g/cm<sup>3</sup>) at 15°C

**Relative density**

Not available.

**Solubility(ies)**

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

**Partition coefficient: n-octanol/water**

Not applicable.

**Auto-ignition temperature**

Not available.

**Decomposition temperature**

Not available.

**Viscosity**

Kinematic: 133.2 mm<sup>2</sup>/s (133.2 cSt) at 40°C  
Kinematic: 13.5 to 14.5 mm<sup>2</sup>/s (13.5 to 14.5 cSt) at 100°C

**Particle characteristics**

**Median particle size**

Not applicable.

## Section 10. Stability and reactivity

**Reactivity**

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

**Chemical stability**

The product is stable.

**Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.  
Under normal conditions of storage and use, hazardous polymerisation will not occur.

**Conditions to avoid**

Avoid all possible sources of ignition (spark or flame).

**Incompatible materials**

Reactive or incompatible with the following materials: oxidising materials.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

##### **Result**

###### **Rat - Oral - LD50**

>5000 mg/kg  
OECD 401

###### **Rabbit - Dermal - LD50**

>5000 mg/kg  
OECD 402

###### **Rat - Inhalation - LC50 Dusts and mists**

>5 mg/l [4 hours]  
OECD 403

###### **Rat - Oral - LD50**

>5000 mg/kg  
OECD 401

###### **Rabbit - Dermal - LD50**

>5000 mg/kg  
OECD 402

###### **Rat - Inhalation - LC50 Dusts and mists**

>5.53 mg/l [4 hours]  
OECD 403

###### **Rat - Oral - LD50**

>5000 mg/kg  
OECD 401

###### **Rat - Dermal - LD50**

>2000 mg/kg  
OECD 402

###### **Rat - Inhalation - LC50 Dusts and mists**

>5.53 mg/l [4 hours]  
OECD 403

#### Skin corrosion/irritation

##### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

##### **Result**

###### **Rabbit - Skin - Mild irritant**

OECD 404

###### **Rabbit - Skin - Non-irritant to skin.**

###### **Rabbit - Skin - Non-irritant to skin.**

#### Serious eye damage/eye irritation

##### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

##### **Result**

###### **Rabbit - Eyes - Non-irritating to the eyes.**

OECD 405

###### **Rabbit - Eyes - Non-irritating to the eyes.**

OECD 405

###### **Rabbit - Eyes - Non-irritating to the eyes.**

OECD 405

#### Respiratory corrosion/irritation

Not available.

## Section 11. Toxicological information

### Respiratory or skin sensitization

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

#### **Result**

##### **Guinea pig - skin**

OECD 406

Result: Not sensitising

##### **Guinea pig - skin**

OECD 406

Result: Not sensitising

##### **Guinea pig - skin**

OECD 406

Result: Not sensitising

### Germ cell mutagenicity

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

#### **Result**

##### **In vitro - Bacteria**

Bacterial Reverse Mutation Test

Result: Negative

##### **In vitro - Mammal - species unspecified**

In vitro Mammalian Chromosomal Aberration Test

Result: Negative

##### **In vivo - Mammal - species unspecified**

Mammalian Erythrocyte Micronucleus Test

Result: Negative

##### **In vitro - Mammal - species unspecified**

In vitro Mammalian Cell Gene Mutation Test

Result: Negative

##### **In vitro - Bacteria**

OECD [Bacterial Reverse Mutation Test]

Result: Negative

##### **In vitro - Mammal - species unspecified**

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

##### **In vitro - Bacteria**

OECD [Bacterial Reverse Mutation Test]

Result: Negative

##### **In vitro - Mammal - species unspecified**

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

### Carcinogenicity

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

#### **Result**

##### **Mouse - Dermal - Unspecified**

OECD 451

Result: Negative

##### **Mouse - Dermal - Unspecified**

OECD 451

Result: Negative

### Reproductive toxicity

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## Section 11. Toxicological information

### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), hydrotreated light paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

### Result

#### Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

#### Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

#### Rat - Oral

OECD 421

Maternal toxicity: Negative

Fertility effects: Negative

Developmental: Negative

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

#### Eye contact

No known significant effects or critical hazards.

#### Inhalation

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

#### Skin contact

Defatting to the skin. May cause skin dryness and irritation.

#### Ingestion

No known significant effects or critical hazards.

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

#### Eye contact

No specific data.

#### Inhalation

No specific data.

#### Skin contact

Adverse symptoms may include the following:  
irritation  
dryness  
cracking

#### Ingestion

No specific data.

### 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.

### **General**

#### USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

### **Carcinogenicity**

No known significant effects or critical hazards.

### **Mutagenicity**

No known significant effects or critical hazards.

### **Developmental effects**

No known significant effects or critical hazards.

### **Fertility effects**

No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

#### **Product/ingredient name**

Distillates (petroleum), hydrotreated heavy paraffinic

#### **Result**

##### **Acute - EL50**

OECD 201

Algae

>100 mg/l [72 hours]

##### **Acute - EL50**

OECD 202

Daphnia

>10000 mg/l [48 hours]

##### **Acute - LL50**

OECD 203

Fish

>100 mg/l [96 hours]

##### **Chronic - NOEL**

OECD 201

Algae

≥100 mg/l [72 hours]

##### **Chronic - NOEL**

OECD 211

Daphnia

10 mg/l [21 days]

Distillates (petroleum), hydrotreated light paraffinic

##### **Acute - EL50**

OECD 201

Algae

>100 mg/l [72 hours]

##### **Acute - EL50**

OECD 202

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## Section 12. Ecological information

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Daphnia  
>10000 mg/l [48 hours]  
**Acute - LL50**  
OECD 203  
Fish  
>100 mg/l [96 hours]  
**Chronic - NOEL**  
OECD 201  
Algae  
≥100 mg/l [72 hours]  
**Chronic - NOEL**  
OECD 211  
Daphnia  
10 mg/l [21 days]  
**Acute - EL50**  
OECD 201  
Algae  
>100 mg/l [72 hours]  
**Acute - EL50**  
OECD 202  
Daphnia  
>10000 mg/l [48 hours]  
**Acute - LL50**  
OECD 203  
Fish  
>100 mg/l [96 hours]  
**Chronic - NOEL**  
OECD 201  
Algae  
≥100 mg/l [72 hours]  
**Chronic - NOEL**  
OECD 211  
Daphnia  
10 mg/l [21 days]

### Environmental effects

No known significant effects or critical hazards.

### Persistence and degradability

Expected to be biodegradable.

#### Product/ingredient name

Distillates (petroleum), hydrotreated heavy paraffinic  
Distillates (petroleum), hydrotreated light paraffinic  
Distillates (petroleum), solvent-dewaxed heavy paraffinic

#### Result

OECD 301F  
31% [28 days] - Not readily  
OECD 301F  
31% [28 days] - Not readily  
OECD 301F  
31% [28 days] - Not readily

### Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

### Mobility in soil

#### Soil/water partition coefficient

Not available.

#### Mobility

Spillages may penetrate the soil causing ground water contamination.

### Other adverse effects

No known significant effects or critical hazards.

## Section 12. Ecological information

**Other ecological information** Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | IMDG           | IATA           |
|----------------------------|----------------|----------------|
| UN number                  | Not regulated. | Not regulated. |
| UN proper shipping name    | -              | -              |
| Transport hazard class(es) | -              | -              |
| Packing group              | -              | -              |
| Environmental hazards      | No.            | No.            |
| Additional information     | -              | -              |

**Special precautions for user** Not available.

**Transport in bulk according to IMO instruments** Not available.

## Section 15. Regulatory information

**Safety, health and environmental regulations specific for the product** No known specific national and/or regional regulations applicable to this product (including its ingredients).

### International lists

**Australia inventory (AIC)**

All components are listed or exempted.

**Canada inventory**

All components are listed or exempted.

**China inventory (IECSC)**

At least one component is not listed.

**REACH Status**

For the REACH status of this product please consult your company contact, as identified in Section 1.

**Japan inventory (CSCL)**

All components are listed or exempted.

**Korea inventory (KECI)**

At least one component is not listed.

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## Section 15. Regulatory information

|                                                    |                                        |
|----------------------------------------------------|----------------------------------------|
| <b>Philippines inventory (PICCS)</b>               | All components are listed or exempted. |
| <b>Taiwan Chemical Substances Inventory (TCSI)</b> | All components are listed or exempted. |
| <b>United States inventory (TSCA 8b)</b>           | All components are active or exempted. |

## Section 16. Other information

### History

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| <b>Prepared by</b>                     | Product Stewardship                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Key to abbreviations</b>            | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations<br>Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1 |

Indicates information that has changed from previously issued version.

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