SAFETY DATA SHEET
Stadis (R) 450

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

1.1 Product identifier:
Product name: Stadis (R) 450
Product code: 10101
Product description: Mixture
Product type: Liquid

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Identified uses:
Petrochemical Industry: Fuel additive, Anti-static agents - Anti-static agents

1.3 Details of the supplier of the safety data sheet:
Supplier/Manufacturer: Innospec Limited
Innospec Manufacturing Park
Oil Sites Road
Ellesmere Port
Cheshire CH65 4EY
United Kingdom

Telephone no.: +44 (0)161 365 3611
Fax no.: +44 (0)161 360 2349
e-mail address of person responsible for this SDS: sdsinfo@innospecinc.com
NON-emergency enquiries: corporatecommunications@innospecinc.com

1.4 Emergency telephone number
In Europe, Middle East, Africa, Asia Pacific and South America:
24 hour / 7 day emergency response for Innospec products is provided by the NOEC CARECHEM 24 global network.
The main regional centres are listed here in Section 1.
Other local contact numbers for specific language support in Asia Pacific are listed in Section 16.

<table>
<thead>
<tr>
<th>Country information</th>
<th>Emergency telephone number</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe (all countries, all languages)</td>
<td>+44 (0) 1235 239 670</td>
<td>London, UK</td>
</tr>
<tr>
<td>Middle East, Africa (Arabic, French, English)</td>
<td>+44 (0) 1235 239 671</td>
<td>Lebanon</td>
</tr>
<tr>
<td>Middle East, Africa (French, Portuguese, English)</td>
<td>+44 (0) 1235 239 670</td>
<td>London UK</td>
</tr>
<tr>
<td>Asia Pacific (all countries except China)</td>
<td>+65 3158 1074</td>
<td>Singapore</td>
</tr>
<tr>
<td>China</td>
<td>+66 10 5100 3030</td>
<td>Beijing China</td>
</tr>
<tr>
<td>South America (all countries)</td>
<td>+1 215 207 0061</td>
<td>Philadelphia USA</td>
</tr>
</tbody>
</table>

In USA, Canada and North America, 24 hour / 7 day emergency response for Innospec products is provided by the CHEMTREC (R) Emergency Call Center based in the USA.
See toll-free telephone numbers: USA: 800 424 9300, Canada, Puerto Rico, Virgin Islands: +1 800 424 9300.
In case of difficulty using the toll-free number, or for ships at sea, please call +1 703 527 3887

Date of issue/Date of revision: 02/09/2011.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

See section 16.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)
- Flammability: 2, H225
- Acute Tox.: 4, H302
- Acute Tox.: 3, H331
- Skin Irrit.: 2, H315
- Eye Dam.: 1, H313
- Carc. 2, H351
- Rep.: 2, H361d
- STOT SE 3, H338
- STOT RE 2, H371
- Acute Chronic 3, H412

Classification according to Directive 1999/45/EC (DDP)

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification :
- F: R11
- Rep. Cat.: 3, R03
- Xi: R41, R36
- Xi: R52/53

Physical/chemical hazards : Highly flammable.

Human health hazards : Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful: may cause lung damage if swallowed. Risk of serious damage to eyes. Irritating to the skin. Vapours may cause drowsiness and dizziness.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or 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 :
- Highly flammable liquid and vapour.
- Toxic if inhaled.
- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye damage.
- Suspected of causing cancer.
- Suspected of damaging the unborn child.
- May be fatal if swallowed and enters airways.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure if inhaled.
- Harmful to aquatic life with long lasting effects.

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

Precautionary statements

Date of issue/Date of revision : 02/08/2011.
SECTION 2: Hazards identification

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves >8 hours (breakthrough time)/VTRs, <1 hours (breakthrough time): nitrile rubber/polynyl alcohol (PVA). Wear eye or face protection. Recommended: splash goggles. Keep away from ignition sources such as heat/sparks/open flame. -No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Immediately call a POISON CENTER or physician.

Storage: Keep cool.

Disposal: Not applicable.

Hazardous ingredients: toluene, hydrocarbons, C10, aromatics, >1% naphthalene, dinonylnaphthalenesulphonic acid

Hazard symbol or symbols: [X]

Indication of danger: Highly flammable, Harmful

Risk phrases: R11- Highly flammable, R36/37/39- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S28- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Hazardous ingredients: toluene, hydrocarbons, C10, aromatics, >1% naphthalene

Supplemental label elements: Not applicable.

Special packaging requirements: Containers to be fitted with child-resistant fastenings

Tactile warning of danger: Not applicable.

2.3 Other hazards: Other hazards which do not result in classification: Not available.

Date of issue/Date of revision: 02/06/2011.
### SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Identifier</th>
<th>%</th>
<th>Classification</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylnaphthalene</td>
<td>REACH #: Compliant, EC: 246-841-9, CAS: 28322-17-2, REACH #: 01-21-19457588-25</td>
<td>10-20</td>
<td>Xi: R41, R38</td>
<td>Skin Irrit. 2, H315, Eye Dam. 1, H318</td>
<td>[1]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt;3</td>
<td></td>
<td>See Section 16 for the full text of the R-phrases declared above.</td>
<td></td>
</tr>
</tbody>
</table>

**Type**

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit


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

Innospec REACH (pre-) registrations DO NOT cover the following:

1. The manufacture of these products by Innospec outside the EU unless covered by the Only Representative provisions, and
2. The importation of these products into Europe by non-Innospec companies. Re-importation by non-Innospec companies is not covered by Innospec (pre-) registrations

Customers and other third parties importing and/or re-importing Innospec products into Europe will need either:
- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or
- In the case of importation only, to make use of the "Only Representative" provisions, if available.

**Date of issue/Date of revision**: 02/06/2011.
SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. 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 : Severely irritating to eyes. Risk of serious damage to eyes.

Inhalation : Vapours may cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Irritating to skin.

Ingestion : Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation : Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, reduced body weight, increase in faecal deaths, skeletal malformations.

Skin contact : Adverse symptoms may include the following: irritation, redness, reduced body weight, increase in faecal deaths, skeletal malformations.

Date of issue/Date of revision : 02/08/2011.
**SECTION 4: First aid measures**

**Ingestion**

Adverse symptoms may include the following:
- nausea or vomiting
- reduced body weight
- increased foetal deaths
- skeletal malformations

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician**
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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.

**5.2 Special hazards arising from the substance or mixture**

- **Hazardous from the substance or mixture**: Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

- **Hazardous thermal decomposition products**: Decomposition products may include the following materials:
  - carbon dioxide
  - carbon monoxide
  - nitrogen oxides
  - sulfur oxides

**5.3 Advice for firefighters**

- **Special protective actions for fire-fighters**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- **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 460 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 spill 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 Section 8 for additional information on hygiene measures.

**6.2 Environmental precautions**: Avoid dispersal of spill 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.

**Date of issue/Date of revision**: 02/09/2011.
SECTION 6: Accidental release measures

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific solutions : Not available.

Date of issue/Date of revision : 02/06/2011.
### 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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 304 mg/m³, 0 times per shift, 15 minute(s). TWA: 191 mg/m³, 0 times per shift, 8 hour(s). TWA: 50 ppm, 0 times per shift, 8 hour(s) STEL: 100 ppm, 0 times per shift, 15 minute(s).</td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &gt;1%</td>
<td>toluene</td>
</tr>
<tr>
<td>naphthalene</td>
<td>EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 1250 mg/m³, 0 times per shift, 15 minute(s). STEL: 500 ppm, 0 times per shift, 15 minute(s). TWA: 999 mg/m³, 0 times per shift, 8 hour(s). TWA: 400 ppm, 0 times per shift, 8 hour(s).</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin. STEL: 333 mg/m³, 0 times per shift, 15 minute(s). STEL: 250 ppm, 0 times per shift, 15 minute(s). TWA: 256 mg/m³, 0 times per shift, 8 hour(s). TWA: 200 ppm, 0 times per shift, 8 hour(s).</td>
</tr>
</tbody>
</table>
| methanol                | **Recommended monitoring procedures**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### 8.2 Exposure controls

**Appropriate engineering controls**: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures**

| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles |

**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. >8 hours (breaththrough time): Vton9 <1 hours (breaththrough time): nitrile rubber, polyvinyl alcohol (PVA)
SECTION 8: Exposure controls/personal protection

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.

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: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. Recommended: full-face mask organic vapour filter (Type A).

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
- Physical state: Liquid, [Clear.]
- Colour: Amber, [Dark]
- Odour: Aromatic
- Odour threshold: Lowest known value: 1.74 ppm (toluene)
- pH: Not available.
- Melting point/freezing point: May start to solidify at the following temperature: <20°C (<4°F) This is based on data for the following ingredients: Solvent naphtha (petroleum), heavy arom.
  Weighted average: -73.3°C (-99.9°F)
- Initial boiling point and boiling range: 90°C (194°F)
- Flash point: Closed cup: 0.6°C (33.1°F) [ASTM D93 (B)]
- Evaporation rate: Highest known value: 2 (toluene) Weighted average: 1.41 compared with butyl acetate
- Flammability (solid, gas): Not available.
- Burning time: Not applicable.
- Burning rate: Not applicable.
- Upper/lower flammability or explosive limits: Greatest known range: Lower: 2.3% Upper: 12.7% (isopropanol)
- Vapour pressure: ≤6.2 kPa (<46.5 mm Hg) (at 20°C)
- Vapour density: Highest known value: 4.0 to 5.5 (Air = 1) (Solvent naphtha (petroleum), heavy arom.). Weighted average: 3.67 (Air = 1)
- Relative density: 0.82
- Density: 0.92 g/cm³ [15°C (59°F)]
- Solubility (ies): Partially soluble in the following materials: cold water, hot water.
- Partition coefficient: n-octanol/water: Not available.
- Auto-ignition temperature: Lowest known value: 395°C (750.2°F) (isopropanol).
- Decomposition temperature: Not available.
- Viscosity: Kinematic: 0.13 cm²/s (13 cSt) Kinematic (40°C (104°F)): 0.08 cm²/s (0.9 cSt)
- Explosive properties: Not available.
- Oxidising properties: Not available.

9.2 Other information
- Pour point: < -39°C

Date of issue/Date of revision: 02/03/2011.
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
: Avoid all possible sources of ignition (spark or flame). Do not pressure, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials
: Highly reactive or incompatible with the following materials:
  oxidizing materials

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>23700 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>636 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>&gt;590 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &gt;1% naphthalene</td>
<td>LC50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2 mL/kg</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5 mL/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>&gt;200000 mg/m3</td>
<td>1 hours</td>
</tr>
<tr>
<td>Dimethylaminomethane</td>
<td>LC50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2 g/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;2000 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>960 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Gas.</td>
<td>Rat</td>
<td>145000 ppm</td>
<td></td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>LC50 Inhalation Gas.</td>
<td>Rat</td>
<td>64000 ppm</td>
<td></td>
</tr>
<tr>
<td>Quaternary ammonium</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>15800 mg/kg</td>
<td></td>
</tr>
<tr>
<td>methanol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5600 mg/kg</td>
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</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stedis (R) 450</td>
<td>Skin - Primary dermal irritation index (PDI)</td>
<td>Rabbit</td>
<td>1.9</td>
<td>4 hours 0.5 ml</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Skin - Oedema</td>
<td>Rabbit</td>
<td>1.33</td>
<td>4 hours 0.5 ml</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Skin - Erythema/Eschar</td>
<td>Rabbit</td>
<td>2.44</td>
<td>4 hours 0.5 ml</td>
<td>21 days</td>
</tr>
<tr>
<td>Toluene</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Pig</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &gt;1% naphthalene</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Mammal - species unspecified</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Mammal - species unspecified</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Respiratory - Irritant</td>
<td>Mammal - species unspecified</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect Type</th>
<th>Species</th>
<th>Route</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclohexylamine</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Methanol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on the likely routes of exposure:
- Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects:
- **Eyes contact**: Severely irritating to eyes. Risk of serious damage to eyes.
- **Inhalation**: Vapours may cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- **Skin contact**: Irritating to skin.
- **Ingestion**: Aspiration hazard if swallowed. Can enter lungs and cause damage. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics:
- **Eyes contact**: Adverse symptoms may include the following:
  - Pain or irritation
  - Watering
  - Redness
- **Inhalation**: Adverse symptoms may include the following:
  - Nausea or vomiting
  - Headache
  - Drowsiness/fatigue
  - Dizziness/vertigo
  - Reduced foetal weight
  - Increase in foetal deaths
  - Skeletal malformations
- **Skin contact**: Adverse symptoms may include the following:
  - Irritation
  - Redness
  - Reduced foetal weight
  - Increase in foetal deaths
  - Skeletal malformations
- **Ingestion**: Adverse symptoms may include the following:
  - Nausea or vomiting
  - Reduced foetal weight
  - Increase in foetal deaths
  - Skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure:
- **Short term exposure**: Not available.
- **Long term exposure**: Not available.

Potential chronic health effects:
- **General**: Harmful. Danger of serious damage to health by prolonged exposure through inhalation.
- **Carcinogenicity**: No known significant effects or critical hazards.

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### SECTION 11: Toxicological information

- **Mutagenicity**: No known significant effects or critical hazards.
- **Teratogenicity**: May cause birth defects, based on animal data.
- **Developmental effects**: No known significant effects or critical hazards.
- **Fertility effects**: No known significant effects or critical hazards.

### SECTION 12: Ecological information

#### 12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stadin (R) 450 toluene</td>
<td>Acute LC50 12 mg/L, Acute EC50 12650 ug/L Marine water</td>
<td><em>Daphnia</em> - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 6 mg/L, Acute LC50 15.5 ppm Marine water</td>
<td><em>Daphnia</em> - <em>Palaemonetes pugio</em> - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 5.8 mg/L, Chronic NOEC 28000 ug/L Marine water</td>
<td><em>Daphnia</em> - <em>Daphnia magna</em> - &lt;=24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &gt;1% naphthalene</td>
<td>Acute EC50 1 to 10 mg/L Marine water</td>
<td><em>Algae</em></td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 1 to 10 mg/L</td>
<td><em>Daphnia</em></td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1400000 to 19500000 ug/L Marine water</td>
<td><em>Crustaceans</em> - <em>Cragon crangon</em></td>
<td>96 hours</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>Acute LC50 6550 mg/L</td>
<td><em>Fish</em></td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.06 mg/L Marine water</td>
<td><em>Algae</em></td>
<td>48 hours</td>
</tr>
<tr>
<td>Questenary ammonium compound</td>
<td>Acute LC50 0.26 mg/L, Acute EC50 16.512 mg/L Marine water</td>
<td><em>Fish</em></td>
<td>96 hours</td>
</tr>
<tr>
<td>methanol</td>
<td>Acute EC50 22000 to 23400 mg/L Fresh water</td>
<td><em>Algae</em> - <em>Ulva portula</em></td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2500000 ug/L Marine water</td>
<td><em>Crustaceans</em> - <em>Daphnia obtusa</em> - Nannate - &lt;=24 hours</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>OECD 301D</td>
<td>Ready Biodegradability - Closed Bottle Test</td>
<td>99% - 28 days</td>
<td>-</td>
</tr>
</tbody>
</table>

#### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP_{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>2.65</td>
<td>&lt;100</td>
<td>low</td>
</tr>
<tr>
<td>Hydrocarbons, C10, aromatics, &gt;1% naphthalene propan-2-ol</td>
<td>-</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>methanol</td>
<td>-0.52 to 0.65</td>
<td>&lt;10</td>
<td>Low</td>
</tr>
</tbody>
</table>

#### 12.4 Mobility in soil

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SECTION 12: Ecological information

Soilwater partition coefficient \((K_{oc})\) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Disposal 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. 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. Vapor 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 spill material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste

Packaging

Methods of disposal : The classification of the product may meet the criteria for a hazardous waste.

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.

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. Vapor 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 spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>ADN/ADNR</th>
<th>IMDG</th>
<th>IATA</th>
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</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>UN1993</td>
<td>UN1993</td>
<td>UN1993</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>FLAMMABLE LIQUID, N.O.S. (toluene)</td>
<td>FLAMMABLE LIQUID, N.O.S. (toluene)</td>
<td>FLAMMABLE LIQUID, N.O.S. (toluene)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
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</table>

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SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>No.</th>
<th>Yes.</th>
<th>No.</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.6 Special precautions for user</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Additional information</td>
<td>Hazard identification number</td>
<td>33</td>
<td>-</td>
<td>Emergency schedules (EmS) F-E-<em>S-E</em></td>
</tr>
<tr>
<td></td>
<td>Limited quantity</td>
<td>1 L</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Special provisions</td>
<td>801 274 940G</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Tunnel code</td>
<td>(D/E)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

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 XV - List of substances subject to authorisation
  - Substances of very high concern
    - None of the components are listed.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
  - Not applicable.

Other EU regulations
- Black List Chemicals: Not listed
- Priority List Chemicals: Listed
- Integrated pollution prevention and control list (IPPC) - Air: Not listed
- Integrated pollution prevention and control list (IPPC) - Water: Not listed

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Carcinogenic effects</th>
<th>Mutagenic effects</th>
<th>Developmental effects</th>
<th>Fertility effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td>-</td>
<td>-</td>
<td>Repr. Cat. 3; R83</td>
<td>-</td>
</tr>
</tbody>
</table>

International regulations
- Chemical Weapons Convention List Schedule I Chemicals: Not listed
- Chemical Weapons Convention List Schedule II Chemicals: Not listed

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SECTION 15: Regulatory information

- Chemical Weapons: Not listed
- Convention List Schedule II Chemicals: Not listed

International lists:
- Australia Inventory (AICS): All components are listed or exempted.
- Canada Inventory: All components are listed or exempted.
- China inventory (IECSC): Not determined.
- EU Inventory: All components are listed or exempted.
- Japan inventory (ENCS): All components are listed or exempted.
- Korea Inventory (KECI): All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
- Philippines inventory (PICCS): All components are listed or exempted.
- United States Inventory (TSCA 8b): All components are listed or exempted.

15.2 Chemical Safety Assessment: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:
- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation (Regulation (EC) No. 1272/2008)
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute Tox. 3, H331</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Irr. 2, H316</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Carc. 2, H351</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Repr. 2, H361d</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>STOT SE 3, H330</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>STOT RE 2, H373i</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Asp. Tox. 1, H304</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td>Expert judgment</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements:
- H225: Highly flammable liquid and vapour.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H316: Causes serious eye damage.
- H317: Causes serious eye irritation.
- H330: Fatal if inhaled.
- H331: Toxic if inhaled.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H361d: Suspected of damaging the unborn child.
- H370: Causes damage to organs.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.

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SECTION 16: Other information

H411  Toxic to aquatic life with long lasting effects.
H412  Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

- Acute Tox. 2, H330  ACUTE TOXICITY: INHALATION - Category 2
- Acute Tox. 3, H301  ACUTE TOXICITY: ORAL - Category 3
- Acute Tox. 3, H311  ACUTE TOXICITY: SKIN - Category 3
- Acute Tox. 3, H331  ACUTE TOXICITY: INHALATION - Category 3
- Acute Tox. 4, H302  ACUTE TOXICITY: ORAL - Category 4
- Aquatic Acute 1, H400  AQUATIC TOXICITY (ACUTE) - Category 1
- Aquatic Chronic 2, H411  AQUATIC TOXICITY (CHRONIC) - Category 2
- Aquatic Chronic 3, H412  AQUATIC TOXICITY (CHRONIC) - Category 3
- Ap. Tox. 1, H304  ASPIRATION HAZARD - Category 1
- Can. 2, H351  CARCINOGENICITY - Category 2
- Eye Dam. 1, H316  SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
- Eye Irrit. 2, H319  SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
- Flam. Liq. 2, H225  FLAMMABLE LIQUIDS - Category 2
- Repr. 2, H361d  TOXIC TO REPRODUCTION [Unborn child] - Category 2
- Skin Irrit. 2, H315  SKIN CORROSION/IRRITATION - Category 2
- STOT RE 2, H373  SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [Central nervous system (CNS)] - Category 2
- STOT RE 2, H373i  SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): INHALATION - Category 2
- STOT SE 1, H370  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
- STOT SE 3, H338  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

Full text of abbreviated R phrases:

R11- Highly flammable.
R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.
R35/36/37/39- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R22- Harmful if swallowed.
R46/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65- Harmful: may cause lung damage if swallowed.
R41- Risk of serious damage to eyes.
R36- Irritating to eyes.
R35- Irritating to skin.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.
R50- Very toxic to aquatic organisms.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53- Harmful to aquatic life and likely to cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]

F - Highly flammable
Repr. Cat. 3 - Toxic to reproduction category 3
T - Toxic
Xn - Harmful
Xi- Irritant
N - Dangerous for the environment

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Version: 3.01

Emergency contact numbers for local language support in Asia Pacific region

<table>
<thead>
<tr>
<th>Country Information</th>
<th>Languages Supported</th>
<th>Telephone No.:</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>English</td>
<td>+61 2 8014 4558</td>
<td>Australia</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>Bengali, English</td>
<td>+65 3156 1200</td>
<td>Singapore</td>
</tr>
<tr>
<td>China</td>
<td>Mandarin, English</td>
<td>+66 10 5100 3039</td>
<td>Beijing China</td>
</tr>
</tbody>
</table>

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**SECTION 16: Other information**

<table>
<thead>
<tr>
<th>Country</th>
<th>Language(s)</th>
<th>Contact Number</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>India</td>
<td>Hindi, English</td>
<td>+65 3158 1198</td>
<td>Singapore</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Bahasa Indonesian, English</td>
<td>00780 3011 2293</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Japan</td>
<td>Japanese, English</td>
<td>+81 3 4578 3934</td>
<td>Japan</td>
</tr>
<tr>
<td>Korea</td>
<td>Korean, English</td>
<td>+65 3158 1285</td>
<td>Singapore</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Bahasa Malaysia, English</td>
<td>+60 3 6207 4347</td>
<td>Malaysia</td>
</tr>
<tr>
<td>New Zealand</td>
<td>English</td>
<td>+64 9929 1983</td>
<td>New Zealand</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Urdu, English</td>
<td>+65 3158 1320</td>
<td>Singapore</td>
</tr>
<tr>
<td>Philippines</td>
<td>Tagalog, English</td>
<td>+65 3158 1203</td>
<td>Singapore</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>Sinhalese, English</td>
<td>+65 3158 1198</td>
<td>Singapore</td>
</tr>
<tr>
<td>Thailand</td>
<td>Thai, English</td>
<td>001800 1 2065 6751</td>
<td>Thailand</td>
</tr>
<tr>
<td>Vietnam</td>
<td>Vietnamese, English</td>
<td>+65 3158 1255</td>
<td>Singapore</td>
</tr>
</tbody>
</table>

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.