1 Identification

- Product identifier
- Trade name: Diphenyl Phthalate
- Part number: FRCS-156J
- CAS Number: 84-62-8
- EC number: 201-546-4
- Relevant identified uses of the substance or mixture and uses advised against
  Reagents and Standards for Analytical Chemical Laboratory Use
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
- Further information obtainable from:
  Telephone: 1800 802 402
  e-mail: pdl-msds_author@agilent.com
- Emergency telephone number: CHEMTREC®: +(61) - 290372994

2 Hazard(s) Identification

- Classification of the substance or mixture

  ![Warning]

  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2A  H319  Causes serious eye irritation.
  STOT SE 3  H335  May cause respiratory irritation.

- Label elements
- GHS label elements
  The substance is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms

  ![Warning]

  GHS07

- Signal word
  Warning

- Hazard statements
  Causes skin irritation.
  Causes serious eye irritation.
  May cause respiratory irritation.

- Precautionary statements
  If medical advice is needed, have product container or label at hand.
  Keep out of reach of children.
  Read label before use.
  Avoid breathing dust/fume/gas/mist/vapours/spray.

(Contd. on page 2)
Safety Data Sheet
according to WHS Regulations

Trade name: Diphenyl Phthalate

Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves / eye protection / face protection.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

- Chemical characterisation: Substances
- CAS No. Description
  84-62-8 diphenyl phthalate
- Identification number(s)
- EC number: 201-546-4

4 First Aid Measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
Trade name: Diphenyl Phthalate

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
- **Respiratory protection:**
  When used as intended with Agilent instruments the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
  Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device equipment with appropriate organic or acid gas cartridge.
· Protection of hands:
   Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves
   For normal use: nitrile rubber, 11-13 mil thickness
   For direct contact with the chemical: butyl rubber, 12-15 mil thickness
   The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material
   For normal use: nitrile rubber: 1 hour
   For direct contact with the chemical: butyl rubber: > 4 hours

· Eye protection:
   Tightly sealed goggles

## 9 Physical and Chemical Properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Solid
      - Colour: Not determined.
    - Odour: Characteristic
    - Odour threshold: Not determined.
  - pH-value: Not applicable.

- Change in condition
  - Melting point/freezing point: 71 °C
  - Initial boiling point and boiling range: 405 °C

- Flash point: 224 °C

- Flammability (solid, gas): Product is not flammable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Not determined.

- Explosive properties: Product does not present an explosion hazard.

- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.

- Vapour pressure: Not applicable.

- Density at 20 °C: 1.28 g/cm³

- Relative density Not determined.

- Vapour density Not applicable.
48.1.26

· Evaporation rate  
  Not applicable.

· Solubility in / Miscibility with water:  
  Insoluble.

· Partition coefficient: n-octanol/water:  
  Not determined.

· Viscosity:  
  Dynamic:  
  Not applicable.
  Kinematic:  
  Not applicable.

· Solvent content:  
  VOC (EC)  
  0.00 %

· Solids content:  
  100.0 %

· Other information  
  No further relevant information available.

10 Stability and Reactivity

· Reactivity  
  No further relevant information available.

· Chemical stability  
  Thermal decomposition / conditions to be avoided:  
  No decomposition if used according to specifications.

· Possibility of hazardous reactions  
  No dangerous reactions known.

· Conditions to avoid  
  No further relevant information available.

· Incompatible materials:  
  No further relevant information available.

· Hazardous decomposition products:  
  No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects  
  Acute toxicity  
  LD/LC50 values relevant for classification:

  84-62-8 diphenyl phthalate
  Oral  
  LD50  
  8,000 mg/kg (rat)

· Primary irritant effect:  
  Skin corrosion/irritation  
  Irritant to skin and mucous membranes.
  Serious eye damage/irritation  
  Irritating effect.
  Respiratory or skin sensitisation  
  No sensitising effects known.

12 Ecological Information

· Toxicity  
  Aquatic toxicity:  
  No further relevant information available.
  Persistence and degradability:  
  No further relevant information available.

· Behaviour in environmental systems:  
  Bioaccumulative potential:  
  No further relevant information available.

· Mobility in soil:  
  No further relevant information available.

· Additional ecological information:  
  General notes:  
  Water hazard class 1 (German Regulation) (Self-assessment):  
  slightly hazardous for water
Safety Data Sheet
according to WHS Regulations

Trade name: Diphenyl Phthalate

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Results of PBT and vPvB assessment
  • PBT: Not applicable.
  • vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

• Waste treatment methods
  • Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packaging:
  • Recommendation: Disposal must be made according to official regulations.

14 Transport information

• UN-Number
  • ADG, IMDG, IATA
    UN3077

• UN proper shipping name
  • ADG
    3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (diphenyl phthalate)
  • IMDG, IATA
    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (diphenyl phthalate)

• Transport hazard class(es)
  • ADG, IATA
    9 Miscellaneous dangerous substances and articles.
    9

• IMDG

• Class
  9 Miscellaneous dangerous substances and articles.

• Label
  9

• Packing group
  • ADG, IMDG, IATA
    III

• Environmental hazards: Product contains environmentally hazardous substances:
  diphenyl phthalate

• Special marking (ADG): Symbol (fish and tree)
### Trade name: Diphenyl Phthalate

<table>
<thead>
<tr>
<th><strong>Special marking (IATA):</strong></th>
<th>Symbol (fish and tree)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special precautions for user</strong></td>
<td>Warning: Miscellaneous dangerous substances and articles.</td>
</tr>
<tr>
<td><strong>Danger code (Kemler):</strong></td>
<td>90</td>
</tr>
<tr>
<td><strong>EMS Number:</strong></td>
<td>F-A,S-F</td>
</tr>
<tr>
<td><strong>Stowage Category</strong></td>
<td>A</td>
</tr>
<tr>
<td><strong>Stowage Code</strong></td>
<td>SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.</td>
</tr>
<tr>
<td><strong>Transport in bulk according to Annex II of Marpol and the IBC Code</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>ADG</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Limited quantities (LQ)</strong></td>
<td>5 kg</td>
</tr>
<tr>
<td><strong>Excepted quantities (EQ)</strong></td>
<td>Code: E1</td>
</tr>
<tr>
<td><strong>Transport category</strong></td>
<td>Maximum net quantity per inner packaging: 30 g</td>
</tr>
<tr>
<td><strong>IMDG</strong></td>
<td>Maximum net quantity per outer packaging: 1000 g</td>
</tr>
<tr>
<td><strong>Limited quantities (LQ)</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Excepted quantities (EQ)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>UN &quot;Model Regulation&quot;:</strong></td>
<td>UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIPHENYL PHTHALATE), 9, III</td>
</tr>
</tbody>
</table>

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Australian Inventory of Chemical Substances
    - Substance is listed.
  - Standard for the Uniform Scheduling of Medicines and Poisons
    - Substance is not listed.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I
  - Substance is not listed.
  - Seveso category E1
  - Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements: 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.
Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LD50: Lethal concentration, 50 percent
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3