

## 1. Identification of the substance/preparation and company/undertaking

|                                     |                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>                 | <b>Brayco 599</b>                                                                                                                                  |
| <b>SDS no.</b>                      | 451699                                                                                                                                             |
| <b>Historic SDS no.</b>             | 27002-AE                                                                                                                                           |
| <b>Use of the substance/mixture</b> | Rust preventive<br>For specific application advice see appropriate Technical Data Sheet or consult our company representative.                     |
| <b>Supplier</b>                     | BP Southern Africa(Pty) Ltd<br>10 Junction Avenue Parktown<br>Johannesburg<br>South Africa<br>2193<br><br>Product Technical Helpdesk: 0800 111 551 |
| <b>EMERGENCY TELEPHONE NUMBER</b>   | +27 (0)860 222166<br>Tygerberg Poison Centre: +27 (0)21 931 6129                                                                                   |
| <b>E-mail address</b>               | MSDSadvice@bp.com                                                                                                                                  |

## 2. Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Environmental hazards</b> | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| <b>Additional hazards</b>    | Defatting to the skin.                                                                        |

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

## 3. Composition/information on ingredients

Synthetic base stock. Proprietary performance additives.

| Chemical name                                           | CAS no.    | %       | EINECS / ELINCS. | Classification                             |
|---------------------------------------------------------|------------|---------|------------------|--------------------------------------------|
| Hydroxyalkyl carboxylic ester                           | 68411-58-5 | 10 - 20 | 270-132-3        | Xi; R38 [1]                                |
| Tricresyl phosphate                                     | 1330-78-5  | 1 - 5   | 215-548-8        | Xn; R21/22 [1]<br>N; R51/53                |
| 1H-imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- | 95-38-5    | 1 - 5   | 202-414-9        | Xn; R22, R48/22 [1]<br>C; R34<br>N; R50/53 |
| n-phenyl-1-naphthylamine                                | 90-30-2    | 0.1 - 1 | 201-983-0        | Xn; R22 [1]<br>R43<br>N; R50/53            |

See Section 16 for the full text of the R-phrases declared above.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

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

## 4. First-aid measures

|                     |                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | 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.                       |
| <b>Skin contact</b> | 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 irritation develops.                        |
| <b>Inhalation</b>   | If inhaled, remove to fresh air. Get medical attention if symptoms appear. 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.          |
| <b>Ingestion</b>    | Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if symptoms occur. |

## 5 . Fire-fighting measures

### Extinguishing media

#### Suitable

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

#### Not suitable

Do not use water jet.

### Hazardous decomposition products

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
nitrogen oxides  
phosphorus oxides

### Unusual fire/explosion hazards

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

### Special fire-fighting procedures

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 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. This material is harmful to aquatic organisms.

### Protection of fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## 6 . Accidental release measures

### Personal precautions - For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Do not breathe vapour or mist. Ensure good ventilation. Put on appropriate personal protective equipment.

### Personal precautions - For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

### Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

### Large spill

Immediately contact emergency personnel. 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. 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. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

### 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.

### Reference to other sections

See Section 1 for emergency contact information.  
See Section 5 for firefighting measures.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 12 for environmental precautions.  
See Section 13 for additional waste treatment information.

## 7 . Handling and storage

### Handling - Protective measures

Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.

### Handling - 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. See also Section 8 for additional information on hygiene measures.

### Storage

Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. 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. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

## 8 . Exposure controls/personal protection

### Ingredient name

### Occupational exposure limits

#### ACGIH TLVs

Base oil - unspecified

#### ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mineral oil, mist

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

## Exposure controls

### Occupational exposure controls

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

### 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. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

### Respiratory protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.  
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.

### 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.

### Eye protection

Safety glasses with side shields.

### Skin and body

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.

## 9 . Physical and chemical properties

### General information

#### Appearance

#### Physical state

Liquid.

#### Colour

Dark Amber.

#### Odour

Mild

### Important health, safety and environmental information

#### Flash point

Open cup: 218°C (424.4°F) [Cleveland.]

#### Viscosity

Kinematic: 44 mm<sup>2</sup>/s (44 cSt) at 37.8°C

#### Pour point

-60 °C

#### Density

985 kg/m<sup>3</sup> (0.985 g/cm<sup>3</sup>) at 15.6°C

#### Solubility

insoluble in water.

## 10 . Stability and reactivity

### Stability

The product is stable.

### Possibility of hazardous reactions

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

### Conditions to avoid

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

### Materials to avoid

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.

## 11 . Toxicological information

### Effects and symptoms

|                 |                                                                                                                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes            | Potential risk of transient stinging or redness if accidental eye contact occurs.                                                                                                                                                         |
| Skin            | May cause skin dryness and irritation.                                                                                                                                                                                                    |
| Inhalation      | Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs. |
| Ingestion       | Ingestion of large quantities may cause nausea and diarrhoea.                                                                                                                                                                             |
| Chronic effects | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.                                                                                                                                      |

## 12 . Ecological information

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| Mobility              | Non-volatile. Liquid. insoluble in water.                                                     |
| Environmental hazards | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## 13 . Disposal considerations

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disposal considerations / Waste information | 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. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Unused product

| Waste code | Waste designation              |
|------------|--------------------------------|
| 13 08 99*  | wastes not otherwise specified |

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

### Packaging

| Waste code | European waste catalogue (EWC)                                           |
|------------|--------------------------------------------------------------------------|
| 15 01 10*  | packaging containing residues of or contaminated by dangerous substances |

## 14 . Transport information

Not classified as hazardous for transport (ADR/RID, ADN, IMDG, ICAO/IATA)

## 15 . Regulatory information

Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

### Label requirements

|                                   |                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Risk phrases                      | R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.                       |
| Safety phrases                    | S61- Avoid release to the environment. Refer to special instructions/safety data sheet.                                     |
| Additional warning phrases        | Contains n-phenyl-1-naphthylamine. May produce an allergic reaction.                                                        |
| Other regulations                 |                                                                                                                             |
| REACH Status                      | The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH. |
| United States inventory (TSCA 8b) | All components are listed or exempted.                                                                                      |
| Australia inventory (AICS)        | All components are listed or exempted.                                                                                      |
| Canada inventory                  | All components are listed or exempted.                                                                                      |
| China inventory (IECSC)           | All components are listed or exempted.                                                                                      |
| Japan inventory (ENCS)            | All components are listed or exempted.                                                                                      |
| Korea inventory (KECI)            | All components are listed or exempted.                                                                                      |

|                      |                  |                     |                                |                 |                        |
|----------------------|------------------|---------------------|--------------------------------|-----------------|------------------------|
| <b>Product name</b>  | Brayco 599       | <b>Product code</b> | 451699-US03                    | <b>Page:</b>    | 4/5                    |
| <b>Date of issue</b> | 15 February 2012 | <b>Format</b>       | South Africa<br>(South Africa) | <b>Language</b> | ENGLISH<br>( ENGLISH ) |

## 16 . Other information

### Full text of R-phrases referred to in sections 2 and 3

R22- Harmful if swallowed.  
R21/22- Harmful in contact with skin and if swallowed.  
R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R34- Causes burns.  
R38- Irritating to skin.  
R43- May cause sensitisation by skin contact.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### History

#### Date of issue/ Date of revision

15/02/2012.

#### Date of previous issue

09/02/2012.

#### Prepared by

Product Stewardship

#### Notice to reader

Indicates information that has changed from previously issued version.

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