SAFETY DATA SHEET



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

Product name Brayco 599

SDS no. 451699 Historic SDS no. 27002-AE Use of the substance/mixture Rust preventive

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

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Hazards identification 2.

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

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

Additional hazards Defatting to the skin.

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

Composition/information on ingredients

Synthetic base stock. Proprietary performance additives

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

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.

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

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 irritation develops.

Inhalation 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.

Ingestion 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.

Product code 451699-US03 **Product name** Brayco 599 Page: 1/5 Date of issue 15 February 2012 **Format South Africa** Language ENGLISH (South Africa) (ENGLISH) 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. Treatment should in general be symptomatic and directed to relieving any effects.

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

Special fire-fighting

procedures

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

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 ACGIH TLVs

Occupational exposure limits

ACGIN ILVS

ACGIH (United States).

Base oil - unspecified

TWA: 5 mg/m³ 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.

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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.

Wear protective gloves if prolonged or repeated contact is likely. **Hand protection**

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.

Physical and chemical properties

General information

Appearance

Liquid. **Physical state** Colour Dark Amber. Odour Mild

Important health, safety and environmental information

Flash point Open cup: 218°C (424.4°F) [Cleveland.] Kinematic: 44 mm²/s (44 cSt) at 37.8°C **Viscosity**

Pour point -60 °C

Density 985 kg/m3 (0.985 g/cm3) at 15.6°C

Solubility insoluble in water.

10. Stability and reactivity

Stability The product is stable.

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

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11. Toxicological information

Effects and symptoms

Potential risk of transient stinging or redness if accidental eye contact occurs. **Eyes**

May cause skin dryness and irritation. Skin

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, ADNR, 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.

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Philippines inventory (PICCS)

All components are listed or exempted.

National regulations National legislation: Occupational Health and Safety Act (Act 85 of 1993).

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.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

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