

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

Product name	BNS Grease
SDS #	452713
Use of the substance/preparation	Grease For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	Castrol Vietnam Ltd 4th Floor, Sun Wah Tower, 115 Nguyen Hue Boulevard, Dist. 1, HCM City Vietnam Tel : 84-8-8219153 Fax : 84-8-8219152
EMERGENCY TELEPHONE NUMBER	+65 3158 1074

2. Composition/information on ingredients

Chemical name	Concentration	CAS no.
Propylene carbonate	10 - 20	108-32-7
Diphenylamine	1 - 5	122-39-4

Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

This preparation is not classified as dangerous.

Physical/chemical hazards	Not classified as dangerous.
Health hazards	Not classified as dangerous.
Additional Hazards	Not available.
Effects and symptoms	
Eyes	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Skin	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Slightly irritating to the skin. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Medical Advice' under First-Aid Measures, Section 4 of this Safety Data Sheet.
Inhalation	At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility.
Ingestion	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

4. First-aid measures

Eye contact	In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact	In case of contact, immediately flush skin with plenty of water. 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.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
Notes to physician	Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

5. Fire-fighting measures

Extinguishing media

Suitable

Use foam or all-purpose dry chemicals to extinguish. 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.

Not Suitable

Do not use water jet.

Hazardous decomposition products

Combustion products may include the following:
carbon oxides
nitrogen oxides

Unusual fire/explosion Hazards

This material is not explosive as defined by established regulatory criteria.

Special fire-fighting procedures

None identified.

Protection of fire-fighters

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

6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

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

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 spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Avoid contact of spilled material and runoff with soil and surface waterways.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls/personal protection

Ingredient name

Diphenylamine

Occupational exposure limits

ACGIH TLV (United States, 1/2007).

TWA: 10 mg/m³ 8 hour(s).

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 relevant airborne concentrations below their respective occupational exposure limits.

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.

Personal protective equipment

Respiratory system

None required; however, use of adequate ventilation is good industrial practice.

Skin and body

None required; however, use of protective clothing is good industrial practice.

Hands

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.

Eyes

Safety glasses with side shields.

9 . Physical and chemical properties

Physical state Grease

10 . Stability and reactivity

Stability The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions to avoid No specific data.

Hazardous decomposition products Decomposition products may include the following materials:
carbon oxides
nitrogen oxides

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

11 . Toxicological information

Chronic toxicity

Carcinogenic effects No known significant effects or critical hazards.

12 . Ecological information

Persistence/degradability The biodegradability of this material has not been determined.

Environmental hazards No ecotoxicity or ecological information to report.

13 . Disposal considerations

Disposal Consideration / Waste information The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Dispose 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14 . Transport information

International transport regulations

Not classified as dangerous for transport (IMDG, ICAO/IATA)

15 . Regulatory information

European Union - Label Requirements

Risk phrases This product is not classified as hazardous under applicable regulations.

Other regulations

Inventories

Europe inventory: All components are listed or exempted.
United States inventory (TSCA 8b): Not determined.
Australia inventory (AICS): Not determined.
Canada inventory: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (ENCS): Not determined.
Korea inventory (KECI): Not determined.
Philippines inventory (PICCS): Not determined.

Vietnam

Toxic classification (TCVN 3164-79) Not classified as hazardous.

16 . Other information

History

Date of issue 2 October 2007

Date of previous issue No Previous Validation

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 us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.