

SAFETY DATA SHEET



BP Unsteneded Butane


Section 1. Identification

GHS product identifier BP Unsteneded Butane

Product code 0000003299

SDS no. 0000003299

Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/
mixture**  Industrial
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Manufacturer

Supplier BP Australia Pty Ltd
Level 17, 717 Bourke Street
Docklands, Victoria 3008
ABN 53 004 085 616

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Technical Helpline Number: 1300 139 700

**EMERGENCY TELEPHONE
NUMBER** 1800 638 556

Section 2. Hazard(s) identification

**Classification of the
substance or mixture** FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Liquefied gas

GHS label elements

Hazard pictograms




Signal word DANGER

Hazard statements H220 - Extremely flammable gas.
H280 - Contains gas under pressure; may explode if heated.

Precautionary statements


Prevention P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response  P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 - In case of leakage, eliminate all ignition sources.

Storage  P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

Disposal Not applicable.

**Supplemental label
elements** Keep container tightly closed. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated.

**Other hazards which do not
result in classification**  Acts as a simple asphyxiant.
At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Liquid can cause burns similar to frostbite.

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Section 3. Composition and ingredient information

Substance/mixture Mixture

Petroleum gas.

Contains: Butane/isobutane \geq 85%. Contains $<$ 0.10% 1,3-butadiene.

Ingredient name	% (v/v)	CAS number
<input checked="" type="checkbox"/> Butane	0 - \geq 99	106-97-8
Isobutane	0 - \geq 99	75-28-5
Butylene	\leq 10	25167-67-3
Ethane	\leq 5	74-84-0
Propylene	\leq 5	115-07-1
pentane	\leq 2	109-66-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Contact with liquid: Immediately flush with plenty of tepid water (105-115° F; 41-46° C). DO NOT USE HOT WATER. Get immediate medical attention.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Skin contact

Contact with liquid: Immediately flush with plenty of tepid water (105-115° F; 41-46° C). DO NOT USE HOT WATER. Get immediate medical attention.

Do not use hot water. Flush contaminated skin with plenty of water. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Remove contaminated clothing and shoes. Clean shoes thoroughly before reuse. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Get medical attention if symptoms occur. Do not apply ointment or powders. DO NOT rub or compress the burnt area of skin. DO NOT attempt to remove portions of clothing glued to the skin, but cut round them.

Ingestion

Not applicable (gas).

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects. Treat cold burns as frostbite.

Specific treatments

No specific treatment.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

If gas has ignited, do not attempt to extinguish but stop gas flow and allow to burn out. Use water spray to cool heat-exposed containers, and to protect surrounding areas and personnel effecting shut-off.

Unsuitable extinguishing media

Do not use water jet.

Specific hazards arising from the chemical

Contains gas under pressure. Extremely flammable gas. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground.

Hazardous thermal decomposition products

☑ Combustion products may include the following:
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Special protective actions for fire-fighters

☑ 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so. In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding areas. Every precaution must be taken to keep containers cool to avoid the possibility of a boiling liquid expanding vapour explosion (BLEVE). Pressurised containers are liable to explode violently when subjected to high temperatures.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Hazchem code

2YE

Remark

☑ May form explosive mixtures with air.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

☑ Immediately contact emergency personnel. Accidental releases pose a serious fire or explosion hazard. 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. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources.

For emergency responders

Do not enter a vapour cloud except for rescue; self-contained breathing apparatus must be worn. A gas detector or instrument to detect explosive atmospheres (explosimeter) can be used to check for combustible gas or vapour in an atmosphere, but it needs care and training to be used safely. Use suitable protective equipment. Liquid leaks generate large volumes of extremely flammable gas. See also the information in "For non-emergency personnel".

Environmental precautions

☑ Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. 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).

Methods and material for containment and cleaning up

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Section 6. Accidental release measures

Small spill

Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill

Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. 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 only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

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.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Butane	Safe Work Australia (Australia). TWA: 1900 mg/m ³ 8 hours. Issued/Revised: 5/1995 TWA: 800 ppm 8 hours. Issued/Revised: 5/1995
Isobutane	ACGIH TLV (United States). Explosive potential. STEL: 1000 ppm 15 minutes. Issued/Revised: 6/2013
Butylene	ACGIH TLV (United States). TWA: 250 ppm 8 hours. Issued/Revised: 1/2008
Ethane	ACGIH TLV (United States). Oxygen Depletion [Asphyxiant]. Explosive potential.
Propylene	ACGIH TLV (United States). TWA: 500 ppm 8 hours. Issued/Revised: 12/2005
pentane	Safe Work Australia (Australia). STEL: 2210 mg/m ³ 15 minutes. Issued/Revised: 5/1995 STEL: 750 ppm 15 minutes. Issued/Revised: 5/1995 TWA: 1770 mg/m ³ 8 hours. Issued/Revised:

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Section 8. Exposure controls and personal protection

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TWA: 600 ppm 8 hours. Issued/Revised:
5/1995

Appropriate engineering controls

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.

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

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.

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.

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.

Eye/face protection

Safety glasses with side shields. If there is a risk of liquid release or vapour pressure jets (e.g. during filling operations) wear a full face visor, chemical goggles and helmet to prevent cold burns / frostbite.

Skin protection

Hand protection

Wear suitable gloves. To prevent cold burns and frostbite wear cold resistant and impervious gauntlets/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.

Skin protection

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.

When handling cylinders wear protective footwear and suitable gloves.

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.

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.

Section 8. Exposure controls and personal protection

Respiratory protection

Ensure good ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Approved air-supplied breathing apparatus must be worn where there is a risk of oxygen deficiency (i.e. low oxygen concentration).
Respiratory protective equipment must be checked to ensure it fits correctly each time it is worn.
Air-filtering respirators, also called air-purifying respirators, will not be adequate under conditions of oxygen deficiency (i.e. low oxygen concentration), and would not be considered suitable where airborne concentrations of chemicals with a significant hazard are present. In these cases air-supplied breathing apparatus will be required.
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.

Thermal hazards

If there is a risk of contact with the liquid, all protective equipment worn should be suitable for use with extremely low temperature materials.

Refer to standards:

Respiratory protection:AS/NZS 1715 and AS/NZS 1716
Gloves:AS/NZS 2161.1
Eye protection:AS/NZS 1336 and AS/NZS 1337

Section 9. Physical and chemical properties

Appearance

Physical state	Liquefied gas.
Colour	Colourless.
Odour	Not available.
Odour threshold	Not available.
pH	Not applicable. Based on Solubility in Water (Very slightly soluble in water)
Melting point	-138°C (-216.4°F)
Boiling point	<-2°C (<28.4°F)
Flash point	Closed cup: <-50°C (<-58°F) [Pensky-Martens.]
Evaporation rate	Not applicable (gas).
Flammability (solid, gas)	Extremely flammable
Lower and upper explosive (flammable) limits	Lower: 1.9% Upper: 9%
Vapour pressure	520 kPa (≤3900 mm Hg) [40°C (104°F)]
Vapour density	1.9 to 2.1 [Air = 1]
Relative density	1
Density	580 kg/m ³ (0.58 g/cm ³) at 15°C
Solubility	Very slightly soluble in water
Partition coefficient: n-octanol/water	2.89 Based on Butane.
Auto-ignition temperature	665°C (689°F)
Decomposition temperature	Not available.
Viscosity	Not applicable. Based on physical state.

Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.
Incompatible materials	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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Gas.	Mouse - Male	520400 ppm	2 hours

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Butane	OECD 473	Experiment: In vitro Subject: Mammal - species unspecified Cell: Somatic	Negative
	OECD 471	Experiment: In vitro Subject: Non-mammalian species	Negative
	OECD 471	Experiment: In vitro Subject: Non-mammalian species	Negative
	OECD 474	Experiment: In vivo Subject: Unspecified Cell: Somatic	Negative

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Butane	-	Negative	Negative	Rat	Inhalation	42 days
	-	Negative	Negative	Rat	Inhalation	42 days
	-	-	Negative	Rat	Inhalation	14 days
	-	Negative	-	Rat	Inhalation	90 days

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Pentane	Category 3	-	Narcotic effects

Aspiration hazard

Name	Result
Pentane	ASPIRATION HAZARD - Category 1

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

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Section 11. Toxicological information

Potential acute health effects

Eye contact	Liquid can cause burns similar to frostbite.
Inhalation	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. High vapour concentrations may produce symptoms of oxygen deficiency which, coupled with central nervous system depression, may lead to rapid loss of consciousness.
Skin contact	Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion	Ingestion of liquid can cause burns similar to frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Adverse symptoms may include the following: frostbite
Inhalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	Adverse symptoms may include the following: frostbite
Ingestion	Adverse symptoms may include the following: frostbite

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Other information This material is an asphyxiant. Asphyxiants may reduce the oxygen concentration in the air to dangerous levels. Symptoms of lack of oxygen include increased depth and frequency of breathing, air hunger, dizziness, headache, nausea or loss of consciousness.

High vapour concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Exposure to vapor may have the following effects: heartbeat irregularity (arrhythmia)

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Butane	EC50 7.71 mg/l Fresh water	Algae	96 days
	LC50 14.22 mg/l Fresh water	Daphnia	48 hours
	LC50 24.11 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Expected to be biodegradable.

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Section 12. Ecological information

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Product/ingredient name	LogP _{ow}	BCF	Potential
Butane	2.89	-	low
Isobutane	2.8	-	low
Butylene	2.31 to 2.4	-	low
Ethane	1.09	-	low
Propylene	1.77	-	low
pentane	3.45	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) Not available.

Mobility Spillages are unlikely to penetrate the soil. This product is likely to volatilise rapidly into the air because of its high vapour pressure.




Other ecological information Unlikely to cause long term effects in the aquatic environment.

Section 13. Disposal considerations

Disposal methods 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. Empty pressure vessels should be returned to the supplier. 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Special Precautions for Landfill or Incineration No additional special precautions identified.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN1011	UN1011	UN1011
UN proper shipping name	Butane	Butane	Butane
Transport hazard class(es)	2.1 	2.1 	2.1 
Packing group	-	-	-
Environmental hazards	No.	No.	No.

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Section 14. Transport information

Additional information	Hazchem code 2YE Initial emergency response guide 04 Remarks Unodourised	Emergency schedules F-D, S-U	Quantity limitation Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: 150 kg. Limited Quantities - Passenger Aircraft: Forbidden.
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Special precautions for user No known special precautions required. See Section: "Handling and storage" for additional information.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Montreal Protocol

Ingredient name	List name	Status
Not listed.		

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Ingredient name	List name	Status
Not listed.		

International lists

National inventory

REACH Status

For the REACH status of this product please consult your company contact, as identified in Section 1.

Australia inventory (AICS)

Contact supplier for regulatory information.

Canada inventory

Not determined.

China inventory (IECSC)

Not determined.

Japan inventory (ENCS)

Not determined.

Korea inventory (KECI)

Not determined.

Philippines inventory (PICCS)

Not determined.

Taiwan Chemical Substances Inventory (TCSI)

Not determined.

United States inventory (TSCA 8b)

Not determined.

Section 16. Any other relevant information

History

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Prepared by Product Stewardship

Key to abbreviations

ADG = Australian Dangerous Goods

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOHSC = National Occupational Health and Safety Commission

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

STEL = Short term exposure limit

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

TWA = Time weighted average

VOC = Volatile Organic Compound

SADT = Self-Accelerating Decomposition Temperature

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas	On basis of test data On basis of test data

Indicates information that has changed from previously issued version.

Notice to reader

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.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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