



# Safety Data Sheet

## Prop BH

Version 1.04

Revision Date 30.08.2017

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Trade name Prop BH

Product code 2045

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

Use Solvent.

#### Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

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Telephone +27103445000

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+44(0)1235 239 671 (Middle East, Arabic African countries)  
+65 3158 1074 (Asia Pacific)  
+86 10 5100 3039 (China)  
+27 (0)17 610 4444 (South Africa)  
+61 (2) 8014 4558 (Australia)

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### SECTION 2. Hazards identification

#### Classification of the substance or mixture

##### Classification

Flammable liquids	Category 3
Acute oral toxicity	Category 4
Skin irritation	Category 2
Serious eye damage	Category 1
Specific target organ toxicity - single exposure	Category 3

#### Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

H226: Flammable liquid and vapour.  
 H302: Harmful if swallowed.  
 H315: Causes skin irritation.  
 H318: Causes serious eye damage.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.

#### Precautionary statements

##### Prevention

P210: Keep away from open flames/hot surfaces. - No smoking.  
 P240: Ground/bond container and receiving equipment.

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	<p>P241: Use explosion-proof electrical/ ventilating/ lighting equipment.</p> <p>P243: Take precautionary measures against static discharge.</p> <p>P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p>
<b>Response</b>	<p>P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/ attention.</p> <p>P362: Take off contaminated clothing and wash before reuse.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310: Immediately call a POISON CENTER/doctor.</p> <p>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p>
<b>Storage</b>	<p>P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.</p> <p>P405: Store locked up.</p>
<b>Disposal</b>	<p>P501: Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.</p>
<b>Other hazards</b>	<p>No data available</p>

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### SECTION 3. Composition/information on ingredients

#### Mixture

##### n-Propanol

**Contents:** >= 40.00 %W/W

**CAS-No.** 71-23-8

**Index-No.** 603-003-00-0

**EC-No.** 200-746-9

**Hazard statements** *H225 H318 H336*

##### Butan-2-ol

**Contents:** <= 30.00 %W/W

**CAS-No.** 78-92-2

**Index-No.** 603-004-01-3

**EC-No.** 201-158-5

**Hazard statements** *H319 H335 H336 H226*

##### 2-methylpropan-1-ol; iso-butanol

**Contents:** <= 15.00 %W/W

**CAS-No.** 78-83-1

**Index-No.** 603-108-00-1

**EC-No.** 201-148-0

**Hazard statements** *H225 H315 H318 H335 H336*

##### n-Butanol

**Contents:** <= 10.00 %W/W

**CAS-No.** 71-36-3

**Index-No.** 603-004-00-6

**EC-No.** 200-751-6

**Hazard statements** *H226 H302 H335 H315 H318 H336*

##### 3-Methylbutan-2-ol

**Contents:** <= 4.00 %W/W

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**CAS-No.** 598-75-4

**Index-No.** 603-006-00-7

**EC-No.** 209-950-2

### Pentan-2-ol

**Contents:** <= 4.00 %W/W

**CAS-No.** 6032-29-7

**Index-No.** 603-006-00-7

**EC-No.** 227-907-6

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4. First aid measures

### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Get medical attention immediately
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### Most important symptoms/effects, acute and delayed

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Refer to SECTION 11

### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Water spray, Foam, CO2, Dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet.
<b>Special hazards arising from the substance or mixture</b>	Hazardous decomposition products
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment. Do not breathe vapours or spray mist. Ensure adequate ventilation. Keep away from sources of ignition - No smoking.
<b>Environmental precautions</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.



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Reference to other sections Refer to Section 8 and 13

### SECTION 7. Handling and storage

**Safe handling advice** Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

**Advice on protection against fire and explosion** No data available

**Requirements for storage areas and containers** Keep containers tightly closed in a cool, well-ventilated place.Keep away from sources of ignition - No smoking.

**Advice on common storage** No data available

### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
N-PROPANOL	TWA	500 mg/m3	1995	South Africa RELs
N-PROPANOL	TWA	200 ppm	1995	South Africa RELs
PROPAN-1-OL	STEL	625 mg/m3	1995	South Africa RELs
PROPAN-1-OL	STEL	250 ppm	1995	South Africa RELs



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SEC-BUTYL ALCOHOL	TWA	300 mg/m <sup>3</sup>	1995	South Africa RELs
SEC-BUTYL ALCOHOL	TWA	100 ppm	1995	South Africa RELs
	STEL	450 mg/m <sup>3</sup>	1995	South Africa RELs
	STEL	150 ppm	1995	South Africa RELs
ISOBUTYL ALCOHOL	TWA	150 mg/m <sup>3</sup>	1995	South Africa RELs
ISOBUTYL ALCOHOL	TWA	50 ppm	1995	South Africa RELs
	STEL	225 mg/m <sup>3</sup>	1995	South Africa RELs
	STEL	75 ppm	1995	South Africa RELs
BUTAN-1-OL	STEL	150 mg/m <sup>3</sup>	1995	South Africa RELs
N-BUTYL ALCOHOL	STEL	50 ppm	1995	South Africa RELs
BUTAN-1-OL				

### Exposure controls

#### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

**Respiratory protection**      Wear self-contained breathing apparatus and protective suit.

**Hand protection**              Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

**Eye protection**                Safety glasses with side-shields

**Skin and body protection**    Protective suit Safety shoes

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### Hygiene measures

Wash hands before breaks and immediately after handling the product.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Colourless
Odour	Alcohol-like
Odour Threshold	No data available
pH	7
Melting point/range	-89.5 ° C
Boiling point/boiling range	99 - 109 ° C
Flash point	26 ° C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	343 ° C
Lower explosion limit	2.1 %(V)
Upper explosion limit	13.5 %(V)
Relative vapour density	2.6(Air = 1.0)
Density	0.804 g/cm <sup>3</sup>

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<b>Solubility/qualitative</b>	Completely soluble
<b>Water solubility</b>	Completely miscible, Completely soluble
<b>Viscosity, dynamic</b>	2.728 mPa.s; 20 ° C

### SECTION 10. Stability and reactivity

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Heating can release hazardous gases.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Materials to avoid</b>	Oxidizing agents. Reducing agents. Acids and bases
<b>Hazardous decomposition products</b>	No decomposition if stored normally.

### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	n-Propanol: LD50 Oral Rat: > 2,000 mg/kg; (literature value)
<b>Acute oral toxicity</b>	2-methylpropan-1-ol; iso-butanol: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401; (literature value)
<b>Acute oral toxicity</b>	Butan-2-ol: LD50 Oral Rat: > 2,000 mg/kg; (literature value)
<b>Acute oral toxicity</b>	n-Butanol:

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	LD50 Rat: 200 - 2,000 mg/kg; OECD Test Guideline 401; GLP: no (literature value)
<b>Acute inhalation toxicity</b>	n-Propanol: LC50 Rat: 4 h; > 20 mg/l; (literature value)
<b>Acute inhalation toxicity</b>	Butan-2-ol: LC50 Rat: 4 h; > 100 mg/l; (literature value)
<b>Acute dermal toxicity</b>	n-Propanol: LD50 Dermal Rabbit: > 2,000 mg/kg; (literature value)
<b>Acute dermal toxicity</b>	2-methylpropan-1-ol; iso-butanol: LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402; (literature value)
<b>Acute dermal toxicity</b>	Butan-2-ol: LD50 Dermal Rat: > 2,000 mg/kg; (literature value)
<b>Acute dermal toxicity</b>	n-Butanol: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402; GLP: no; (literature value)
<b>Skin irritation</b>	n-Propanol: Rabbit: Not irritating; Draize Test (literature value)
<b>Skin irritation</b>	2-methylpropan-1-ol; iso-butanol: Rabbit: irritating; OECD Test Guideline 404 (literature value)
<b>Skin irritation</b>	n-Butanol: Rabbit: irritating; OECD Test Guideline 404 GLP: no; (literature value)
<b>Eye irritation</b>	n-Propanol: Rabbit: Risk of serious damage to eyes. Draize Test (literature value)

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<b>Eye irritation</b>	2-methylpropan-1-ol; iso-butanol: Rabbit: Risk of serious damage to eyes. OECD Test Guideline 405 (literature value)
<b>Eye irritation</b>	n-Butanol: Rabbit: Risk of serious damage to eyes. OECD Test Guideline 405 GLP: no; (literature value)
<b>Sensitisation</b>	n-Propanol: Maximisation Test; Guinea pig: Not sensitizing; (literature value)
<b>Mutagenicity</b>	2-methylpropan-1-ol; iso-butanol: Experiments showed mutagenic effects in cultured bacterial cells. Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)
<b>Mutagenicity</b>	n-Propanol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)
<b>Mutagenicity</b>	n-Butanol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; GLP: no; (literature value)

## SECTION 12. Ecological information

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<b>Toxicity to fish</b>	n-Butanol: flow-through test; Pimephales promelas; 96 h; LC50; > 100 mg/l; OECD Test Guideline 203; GLP: no; (literature value)
<b>Toxicity to fish</b>	n-Propanol: semi-static test; Leuciscus idus; 96 h; LC50; > 100 mg/l; (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	n-Butanol: flow-through test; Daphnia magna; 7 d; EC50; > 100 mg/l; GLP: no; (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	n-Propanol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l; (literature value)
<b>Toxicity to algae</b>	n-Propanol: static test; Pseudokirchneriella subcapitata (green algae) EC50; > 100 mg/l; literature value
<b>Biodegradability</b>	n-Butanol: aerobic; activated sludge of a predominantly domestic sewage; > 70 %; 9 d; Readily biodegradable.; OECD Guideline 301 E; GLP: no; literature value
<b>Biodegradability</b>	2-methylpropan-1-ol; iso-butanol: aerobic; > 70 %; 14 d; Readily biodegradable.; OECD Guideline 301 A (new version); (literature value)
<b>Biodegradability</b>	n-Propanol: aerobic; Readily biodegradable.; (literature value)
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not



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considered to be very persistent and very bioaccumulating (vPvB).

### SECTION 13. Disposal considerations

**Product** Disposal should be in accordance with local, regional and national legislations.

### SECTION 14. Transport information

#### ADR

**UN number:** 1987  
**Class:** 3  
**Packaging group:** III; F1;  
**Proper shipping name:** ALCOHOLS, N.O.S.  
(n-propanol, butanols)

#### RID

**UN number:** 1987  
**Class:** 3  
**Packaging group:** III; F1

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**Proper shipping name:** ALCOHOLS, N.O.S.  
  
(n-propanol, butanols)

### ADNR

**UN number:** 1987

**Class:** 3

**Packaging group:** III; F1

**Proper shipping name:** ALCOHOLS, N.O.S.  
  
(n-propanol, butanols)

### IMDG

**UN number:** 1987

**Class:** 3

**EmS:** F-E, S-D

**Packaging group:** III

**Proper shipping name:** ALCOHOLS, N.O.S.  
  
(n-propanol, butanols)

**Marine pollutant** Not a Marine Pollutant



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### ICAO/IATA

**UN number :** 1987

**Class:** 3

**Packaging group:** III

**Proper shipping name:** ALCOHOLS,N.O.S.  
(n-propanol, butanols)

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Noxious liquid. NF, (8) n.o.s (PropBH, contains-n-Propyl alcohol), ST3, CatY  
Ship Type: 3  
Pollution Category: Y

## SECTION 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
<b>Canadian Domestic Substances List (DSL)</b>	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
<b>Australian Inv. of Chem. Substances (AICS)</b>	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)



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<b>Jap. Inv. of Exist. &amp; New Chemicals (ENCS)</b>	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
<b>Japan. Industrial Safety &amp; Health Law (ISHL)</b>	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
<b>Korea. Existing Chemicals Inventory (KECI)</b>	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
<b>China Inv. Existing Chemical Substances (IECSC)</b>	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

## SECTION 16. Other information

### Full text of H-Statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in



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the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.