# **SAFETY DATA SHEET**

BP E85



# Section 1. Identification

Product name	BP E85
Synonym	85% ethanol, 15% 98 RON petrol
Product code	000004759
SDS no.	000004759
Use of the substance/mixture	Use only as a motor fuel for spark ignition engines. NOT for aviation use. Should NOT be used as a solvent nor cleaning agent. Fuels for vehicles and machinery. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Product type	Liquid. Clear and Bright
Supplier	BP Oil New Zealand Limited Ground floor and 1st floor Watercare House 73 Remuera Road Newmarket Auckland New Zealand
	Phone 09 969 9300
Emergency telephone number	Tel: 0800 805 111
New Zealand National Poisons Centre	0800 764 766
OTHER PRODUCT INFORMATION	Technical Helpline 09 623 9451

# Section 2. Hazards identification

HSNO Classification	<ul> <li>3.1 - FLAMMABLE LIQUIDS - Category A</li> <li>6.3 - SKIN IRRITATION - Category B</li> <li>6.4 - EYE IRRITATION - Category A (Irritant)</li> <li>6.6 - MUTAGENICITY - Category A</li> <li>6.7 - CARCINOGENICITY - Category B</li> <li>6.1 - ACUTE TOXICITY (aspiration) (oral) - Category E</li> <li>9.1 - AQUATIC ECOTOXICITY - Category B</li> </ul>
	5,

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Routes of entry	Dermal contact. Eye contact. Inhalation.
GHS label elements	
Signal word	Danger
Hazard statements	Extremely flammable liquid and vapour. Causes mild skin irritation. Causes serious eye irritation. May cause genetic defects. Suspected of causing cancer. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

Product nameBP E85		Product code 0000	004759 Page: 1/14	
Version 1	Date of issue 22 November 2019	Format New Zealand	Language ENGLISH	
			(ENGLISH)	

### Section 2. Hazards identification

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection: Recommended: splash goggles. Keep away from ignition sources such as heat/sparks/open flame No smoking. Use explosion-proof electrical, ventilating, lighting and all material- handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Keep out of reach of children. Wash thoroughly after handling. If medical advice is needed: Have product container or label at hand.
Response	Collect spillage. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	
Other hazards which do not	Not available.

Other hazards which do not result in classification

Not available.

## Section 3. Composition/information on ingredients

#### Substance/mixture

Mixture

Ethanol Gasoline: A complex mixture of volatile hydrocarbons containing paraffins, naphthenes, olefins and aromatics with carbon numbers predominantly between C4 and C12. May contain oxygenates. May also contain small quantities of proprietary performance additives.

Ingredient name	%	CAS number
Ethanol	85	64-17-5
Gasoline	15	86290-81-5
Toluene	<3	108-88-3
Benzene	<0.2	71-43-2

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		
Inhalation	If inhaled, remove to fresh air. Get medical attention.	
Ingestion	Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage.	
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.	
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention.	
Indication of immediate medi	cal attention and special treatment needed, if necessary	

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

Product nameBP E85		Product code 000	0004759 Page: 2/14
Version 1	Date of issue 22 November 2019	Format New Zealand	Language ENGLISH
			(ENGLISH)

# Section 4. First aid measures

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.
	Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

# Section 5. Firefighting measures

Extinguishing media	
Suitable	In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.
Not suitable	Do not use water jet.
Specific hazards arising from the chemical	Extremely flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Liquid will float and may reignite on surface of water.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
Hazchem code	Not available.
Special precautions 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.
Special protective equipment for 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.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Eliminate all ignition sources. 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. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8).
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. May be harmful to the environment if released in large quantities. Collect spillage. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect recovered product and other contaminated materials in suitable tanks or containers for recycle, recovery or safe disposal.
Product nameBP E85	Product code 0000004759 Page: 3/14

### Section 6. Accidental release measures

#### Methods and material for containment and cleaning up

Small spill	Eliminate all ignition sources. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.
Large spill	Eliminate all ignition sources. 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. Dike spill area and do not allow product to reach sewage system and surface or ground water. 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 (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.

### Section 7. Handling and storage

**Precautions for safe** Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not swallow. Never siphon by mouth. Avoid handling exposure - obtain special instructions before use. Avoid breathing vapour or mist. Use only with adequate ventilation. Avoid release to the environment. Do not enter storage areas and confined spaces unless adequately ventilated. Wear appropriate respirator when ventilation is inadequate. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Wash thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 reuse container. Aspiration hazard if swallowed. Can enter lungs and cause damage. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellincluding any ventilated area, away from incompatible materials (see Section 10) and food and incompatibilities drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Light hydrocarbon vapours can build up in the headspace of tanks. These can cause flammability/explosion hazards even at temperatures below the normal flash point (note: flash point must not be regarded as a reliable indicator of the potential flammability of vapour in tank headspaces). Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, ullaging and sampling from storage tanks. Do not enter storage tanks. If entry to vessels is necessary, follow permit to work procedures. Entry to any tanks or other confined space requires a full risk

assessment and appropriate control measures to be put in place in conformance with appropriate regulations and industry practice on confined space entry. When the product is pumped (e.g. during filling, discharge or ullaging) and when sampling, there is a risk of static discharge. Ensure equipment used is properly earthed or bonded to the tank structure. Electrical equipment should not be used unless it is

Product nameBP E85		Product code 0000047	759 Page: 4/14
Version 1	Date of issue 22 November 2019	Format New Zealand	Language ENGLISH
			(ENGLISH)

### Section 7. Handling and storage

intrinsically safe (i.e. will not produce sparks). Explosive air/vapour mixtures may form at ambient temperature. If product comes into contact with hot surfaces, or leaks occur from pressurised fuel pipes, the vapour or mists generated will create a flammability or explosion hazard. Product contaminated rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Ethanol	NZ HSWA 2015 (New Zealand). WES-TWA: 1880 mg/m <sup>3</sup> 8 hours. Issued/ Revised: 1/1994 WES-TWA: 1000 ppm 8 hours. Issued/ Revised: 1/1994
Gasoline	ACGIH TLV (United States). TWA: 300 ppm 8 hours. Issued/Revised: 5/1996 TWA: 890 mg/m <sup>3</sup> 8 hours. Issued/Revised: 5/1996 STEL: 500 ppm 15 minutes. Issued/ Revised: 5/1996 STEL: 1480 mg/m <sup>3</sup> 15 minutes. Issued/ Revised: 5/1996
Toluene	NZ HSWA 2015 (New Zealand). Absorbed through skin. WES-TWA: 188 mg/m <sup>3</sup> 8 hours. Issued/ Revised: 1/1994 WES-TWA: 50 ppm 8 hours. Issued/ Revised: 1/1994
Benzene	NZ HSWA 2015 (New Zealand). Absorbed through skin. WES-STEL: 2.5 ppm 15 minutes. Issued/ Revised: 9/2010 WES-TWA: 1 ppm 8 hours. Issued/Revised: 9/2010
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations 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.

Product nameBP E85		Product code 0000	0004759 Page: 5/14
Version 1	Date of issue 22 November 2019	Format New Zealand	Language ENGLISH
			(ENGLISH)

# Section 8. Exposure controls/personal protection

Environmental exposure controls	they comply with the cases, fume scrub	entilation or work process equipment should be checked to ensure he requirements of environmental protection legislation. In some obers, filters or engineering modifications to the process necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	eating, smoking an Appropriate techni Wash contaminate	arms and face thoroughly after handling chemical products, before nd using the lavatory and at the end of the working period. iques should be used to remove potentially contaminated clothing. ed clothing before reusing. Ensure that eyewash stations and e close to the workstation location.
Eye protection	Recommended: s	plash goggles
Hand protection	Recommended:	Gloves made from fluoroelastomer resistant to hydrocarbons and a wide range of chemicals. Wear a chemically resistant multi-layer laminate inner glove inside an outer nitrile glove. The purpose of the outer glove is to protect the inner glove from cuts and mechanical damage. The presence of aromatic hydrocarbons in the product will significantly shorten the length of time that nitrile gloves will provide protection. Do not re-use nitrile gloves if exposed to aromatic hydrocarbons.
Skin protection	overalls will only p not soak through t When the risk of s a risk of splashing and boots will be r resistant to chemic anti-static protectiv overalls, boots and wear inherently fire should be launder should only be dor of the contaminate uncontaminated w of skin exposure is cleaning work, ma cleaning up spillag Personal protectiv being performed a	clothing is good industrial practice. Cotton or polyester/cotton rovide protection against light superficial contamination that will o the skin. Overalls should be laundered on a regular basis. kin exposure is high (e.g. when cleaning up spillages or if there is ) then chemical resistant aprons and/or impervious chemical suits equired. Wear suitable protective clothing. Footwear highly cals. When there is a risk of ignition from static electricity, wear ve clothing. For greatest effectiveness against static electricity, d gloves should all be anti-static. When there is a risk of ignition e resistant protective clothes and gloves. Work clothing / overalls ed on a regular basis. Laundering of contaminated work clothing ne by professional cleaners who have been told about the hazards on. Always keep contaminated work clothing away from vork clothing and uncontaminated personal clothes. When the risk intenance and service, filling and transfer, taking samples and ges) then a chemical protective suit and boots will be required. e equipment for the body should be selected based on the task and the risks involved and should be approved by a specialist is product. Recommended: overall
Respiratory protection	Recommended:	Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure level.

# Section 9. Physical and chemical properties

Product nameBP E85	Product code 0000004759	Page: 6/14
Lower and upper explosive (flammable) limits	Lower: 1.4% Upper: 19%	
Flash point	Closed cup: -40°C (-40°F) [Pensky-Martens.]	
Drop Point	Not available.	
Boiling point	>30 to < 210°C (>86 to < 410°F)	
Melting point	Not available.	
рН	Not available.	
Odour	Hydrocarbon. (Petrol and Ethanol)	
Colour	Water White. to Yellow.	
Physical state	Liquid. Clear and Bright	
<u>Appearance</u>		

Version 1 Date of issue 22 November 2019

Format New Zealand

Language ENGLISH

<sup>(</sup>ENGLISH)

## Section 9. Physical and chemical properties

Vapour pressure	50 kPa (375.03 mm Hg) [25°C (77°F)]
Vapour density	Not available.
Density	780 kg/m³ (0.78 g/cm³) at 15°C
Solubility	Miscible in water. (85%)
Viscosity	Kinematic: <0.1 mm²/s (<0.1 cSt) at 40°C

# Section 10. Stability and reactivity

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). Avoid excessive heat.
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 likely re	outes of exposure
Inhalation	No known significant effects or critical hazards.
Ingestion	Irritating to mouth, throat and stomach. Aspiration hazard if swallowed harmful or fatal if liquid is aspirated into lungs.
Skin contact	Causes mild skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the	he physical, chemical and toxicological characteristics
Inhalation	No specific data.
Ingestion	Adverse symptoms may include the following: nausea or vomiting
Skin contact	Adverse symptoms may include the following: irritation redness
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness

### **Acute toxicity**

Product/ingredient name	Test	Species	Result	Exposure	Remarks
Ethanol	LC50 Inhalation Vapour	Rat	124.7 mg/l	4 hours	Based on Ethanol
	LC50 Inhalation Vapour	Rat	116.9 mg/l	4 hours	Based on Ethanol
	LC50 Inhalation Vapour	Rat	133.8 mg/l	4 hours	Based on Ethanol
	LD50 Oral	Rat	10470 mg/kg	-	Based on Ethanol
Gasoline	LC50 Inhalation Vapour	Rat	>7630 mg/m³ Nominal	4 hours	Based on Gasoline
	LC50 Inhalation Vapour	Rat	>5610 mg/m³ analytical	4 hours	Based on Gasoline
	LD50 Dermal	Rabbit	>2000 mg/kg	-	Based on Gasoline

Product nameBP E85 Date of issue 22 November 2019 Version 1

**Product code** 0000004759

Format New Zealand

Page: 7/14 Language ENGLISH

(ENGLISH)

#### Section 11. Toxicological information LD50 Oral Rat >5000 mg/kg \_ Based on Gasoline

**Conclusion/Summary** Not available.

#### Irritation/Corrosion

Product/ingredient name	Species	Result	Score	Exposure	Observation	Conc.	Remarks
Ethanol	Rabbit	Skin - Non- irritant to skin.	-	-	-	-	Based on Ethanol
	Rabbit	Eyes - Cornea opacity	-	-	-	-	Based on Ethanol
	Rabbit	Eyes - Iris lesion	-	-	-	-	Based on Ethanol
	Rabbit	Eyes - Irritant	-	-	-	-	Based on Ethanol
Gasoline	Rabbit	Skin - Irritant	-	-	-	-	Based on Gasoline
	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on Gasoline

Skin	Causes skin irritation.
Eyes	Causes serious eye irritation.
Respiratory	Not available.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result	Remarks
Gasoline	skin	Guinea pig	Not sensitising	Based on Gasoline

Potential chronic hea	alth effects
General	No known significant effects or critical hazards.
Inhalation	May be harmful by inhalation after often repeate may irritate the nose, mouth and respiratory trac intentional overexposure to vapours can produce

Inhalation	May be harmful by inhalation after often repeated exposure. Vapour, mist or fume may irritate the nose, mouth and respiratory tract. Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce serious central nervous system effects, including unconsciousness, and possibly death.
Ingestion	Not applicable.
Skin contact	Not applicable.
Eye contact	Not applicable.
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. May cause cancer Exposure to benzene may result in effects to the hematopoietic system causing blood disorders including anaemia and leukaemia. Benzene is classified by EEC as a category 1 carcinogen - substances known to be carcinogenic to man. IARC assessment: benzene - carcinogenic to humans (Group 1)
Mutagenicity	May cause genetic defects.
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.
Carcinogenicity	

## Section 11. Toxicological information

Product/ingredier	nt name Test		Species	Result	Exposure
Ethanol	Mouse	Oral	105 weeks	Positive Oral - Unspecified	Based on Ethanol
	Rat	Oral	104 weeks	Negative Oral - Unspecified	Based on Ethanol
Gasoline	Rat	Inhalation	113 weeks	Negative Inhalation - Unspecified	Based on Gasoline
	Mouse	Dermal	102 weeks	Negative Dermal - Unspecified	Based on Gasoline

Conclusion/Summary May cause cancer

### **Mutagenicity**

**Product/ingredient name** Test Result **Experiment Remarks** Negative Ethanol Based on Ethanol Equivalent to OECD Experiment: In vitro 476 Subject: Mammal species unspecified Based on Ethanol Equivalent to OECD Experiment: In vitro Negative 473 Subject: Nonmammalian species Equivalent to OECD Experiment: In vivo Negative Based on Ethanol 478 Subject: Unspecified Cell: Germ Gasoline Equivalent to OECD Based on Gasoline Experiment: In vitro Negative 476 Subject: Mammal species unspecified Equivalent to OECD Experiment: In vitro Based on Gasoline Negative 471 Subject: Nonmammalian species **EPA OPPTS** Based on Gasoline Experiment: In vivo Negative 870.5395 vapour condensate Subject: Unspecified Cell: Germ Equivalent to OECD Experiment: In vivo Negative Based on Gasoline 475 Subject: Unspecified Cell: Germ

Conclusion/Summary Reproductive toxicity May cause genetic defects.

Product nameBP E85		Product code 0000	004759 Page: 9/14
Version 1	Date of issue 22 November 2019	Format New Zealand	Language ENGLISH
			(ENGLISH)

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Result	Exposure
Ethanol	-	Positive	-	Rat	Oral	2 generation
	-	-	Negative	Rat	Inhalation	18 days
Gasoline	-	Negative	-	Rat	Inhalation	2 generation
	-	-	Negative	Rat	Inhalation	14 days
Conclusion/Summary	Fertility: Effects c	Based on av	ected of damaging ailable data, the c ation: Not classifie	lassification crite	eria are not met.	lassification

### Aspiration hazard

Name Gasoline Toluene n-hexane

Remarks

# Section 12. Ecological information

Ecotoxicity	Thi	s material is toxic to a	quatic life with long	g lasting effects.
Aquatic and terrestria	<u>ll toxicity</u>			
Product/ingredient	Species	Result/Test	Exposure	Effects

name					
Ethanol	Algae	EC50 675 mg/l	4 days	-	Based on Ethanol
	Aquatic plants	EC50 4432 mg/l	7 days	-	Based on Ethanol
	Daphnia	Acute LC50 5012 mg/l	48 hours	-	Based on Ethanol
	Fish	Acute LC50 153 g/l	96 hours	-	Based on Ethanol
	Fish	Acute LC50 14.2 g/l	96 hours	-	Based on Ethanol
	Daphnia	Chronic LC50 2 mg/l	10 days	-	Based on Ethanol
	Daphnia	Chronic LC50 9.6 mg/l	9 days	-	Based on Ethanol
Gasoline	Micro-organism	Acute EC50 15.41 mg/l Nominal Fresh water	40 hours	growth inhibition	-
	Algae	Acute EL50 3.1 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Gasoline
	Algae	Acute EL50 3.7 mg/l Nominal Fresh water	96 hours	(growth rate)	Based on Gasoline
	Daphnia	Acute EL50 4.5 mg/l Nominal	48 hours	Mobility	Based on straight-run light
Product nameBP E85			Product co	de 0000004759	Page: 10/14
Version 1 Date of i	ssue 22 November 2	019 <b>F</b>	ormat New Zealand	Lang	guage ENGLISH
					(ENGLISH)

FishAcute LL50 10 Meri Nominal Fresh water96 hoursMortalityBased on Naphha (petroleum), isomerisationFishAcute LL50 8.2 mg/ Nominal Fresh water96 hoursMortalityBased on Naphha (petroleum), adviateAlgaeAcute NOELR 0.5 mg/ Nominal Fresh water72 hours(growth rate)Based on CasolineDaphniaAcute NOELR 0.5 mg/ Nominal Fresh water72 hours(growth rate)Based on CasolineDaphniaAcute NOELR 0.5 mg/ Nominal Fresh water48 hoursMobilityBased on Straight rung of ofDaphniaChronic EL50 21 days21 daysMobilityBased on Naphha (petroleum), adviateDaphniaChronic EL50 21 mg/ Nominal Fresh water21 daysMobilityBased on Naphha (petroleum), adviateFishChronic EL50 b 2.2 mg/l Nominal Fresh water21 daysMotalityBased on Naphha (petroleum), adviateDaphniaChronic NOELR 2.5 mg/l Nominal Fresh water14 daysMortalityBased on Naphha (petroleum), adviateDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water21 daysMobilityBased on Naphha (petroleum), adviateDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMortalityBased on Naphha (petroleum), catavitoDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMortalityBased on Naphha (petroleum), catavitoDaphniaChronic NOELR <br< th=""><th></th><th></th><th>Fresh water</th><th></th><th></th><th>gasoline</th></br<>			Fresh water			gasoline
mgd Nominal Fresh waterNaphtha (petroleum), 1 alkylateAlgaeAcute NOELR 0.5 mg/ Nominal Fresh water72 hours 0.6 mg/ Nominal Fresh water(growth rate)Based on GasolineDaphniaAcute NOELR 0.5 mg/ Nominal Fresh water48 hours 0.4 mg/ Nominal Fresh waterMobilityBased on Straight run go oilDaphniaChronic EL50 10 21 days21 days MobilityReproduction Based on Naphtha (petroleum), 1 alkylateDaphniaChronic EL50 10 21 mg/ Nominal Fresh water21 days A0 mg/ Nominal Fresh waterMobilityBased on Naphtha (petroleum), 1 alkylateDaphniaChronic EL50 10 2.5 mg/ Nominal Fresh water21 days A0 mg/ Nominal Fresh waterReproduction Naphtha (petroleum), 1 alkylateFishChronic EL50 10 5.2 mg/ Nominal Fresh water21 days A mg/ Nominal (petroleum), 1 alkylateBased on Naphtha (petroleum), 1 alkylateDaphniaChronic NOELR 2.6 mg/ Nominal Fresh water14 days A md/ Naphtha (petroleum), 1 alkylateBased on Naphtha (petroleum), 1 alkylateDaphniaChronic NOELR 2.6 mg/ Nominal Fresh water21 days A mg/ Nominal (petroleum), 1 alkylateBased on Naphtha (petroleum), 1 alkylateDaphniaChronic NOELR 2.6 mg/ Nominal Fresh water21 days A mg/ Nominal (petroleum), 1 alkylateBased on Naphtha (petroleum), 1 alkylateDaphniaChronic NOELR 2.6 mg/ Nominal Fresh water21 days A mg/ Nominal (petroleum), 1 alkylate		Fish	Acute LL50 10 mg/l Nominal	96 hours	Mortality	Based on Naphtha
0.5 mg/l Nominal Fresh water     Gasoline       Daphnia     Acute NOELR 0.5 mg/l Nominal Fresh water     48 hours 0.5 mg/l Nominal Fresh water     Mobility     Based on Straight run g oil       Daphnia     Chronic EL50 >40 mg/l Nominal Fresh water     21 days 21 days     Reproduction Mobility     Based on Naphtha (petroleum), 1 alkylate       Daphnia     Chronic EL50 >40 mg/l Nominal Fresh water     21 days 21 days     Mobility     Based on Naphtha (petroleum), 1 alkylate       Fish     Chronic EL50 10 Nominal Fresh water     21 days     Reproduction Reproduction     Based on Naphtha (petroleum), 1 alkylate       Fish     Chronic EL50 10 S.2 mg/l Nominal Fresh water     14 days     Mortality     Based on Naphtha (petroleum), 1 catalylo; reformed       Daphnia     Chronic NOELR 16 mg/l Nominal Fresh water     21 days     Reproduction Naphtha (petroleum), 1 alkylate; read across betwe species       Daphnia     Chronic NOELR 16 mg/l Nominal Fresh water     21 days     Motality     Based on Naphtha (petroleum), 1 alkylate; reformed       Daphnia     Chronic NOELR 16 mg/l Nominal Fresh water     14 days     Motality     Based on Naphtha (petroleum), 1 alkylate; read across betwe species       Fish     Chronic NOELR 2.6 mg/l Nominal Fresh water     14 days     Mortality     Based on Naphtha (petroleum), 1 alkylate; read across betwe species       Fish     Chronic NOELR 2.6 mg/l Nominal Fresh water     21 days     Reproduction Reproduction </td <td></td> <td>Fish</td> <td>mg/l Nominal</td> <td>96 hours</td> <td>Mortality</td> <td>Naphtha (petroleum), I</td>		Fish	mg/l Nominal	96 hours	Mortality	Naphtha (petroleum), I
0.5 mg/l Nominal Fresh waterStraight run g oilDaphniaChronic EL50 10 mg/l Nominal Fresh water21 daysReproductionBased on Naphtha (petroleum), akylateDaphniaChronic EL50 *40 mg/l Nominal Water21 daysMobilityBased on Naphtha (petroleum), akylateFishChronic EL50 10 *40 mg/l Nominal Fresh water21 daysMobilityBased on Naphtha (petroleum), akylateFishChronic EL50 10 mg/l Nominal Fresh water21 daysReproductionBased on Naphtha (petroleum), akylate; read across betwe speciesFishChronic LL50 5.2 mg/l Nominal Fresh water14 daysMortalityBased on Naphtha (petroleum), akylate; read across betwe speciesDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water21 daysReproductionBased on Naphtha (petroleum), akylate; read across betwe speciesDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water21 daysMobilityBased on Naphtha (petroleum), akylate; read read akylate;DaphniaChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMotalityBased on Naphtha (petroleum), akylate;FishChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMotalityBased on Naphtha (petroleum), akylate;FishChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMotalityBased on Naphtha (petroleum), akylate;FishChronic NOELR 2.6 mg/l Nominal <td></td> <td>Algae</td> <td>0.5 mg/l Nominal</td> <td>72 hours</td> <td>(growth rate)</td> <td></td>		Algae	0.5 mg/l Nominal	72 hours	(growth rate)	
mg/l Nominal Fresh water       Naphtha (petroleum), Aliylate       Naphtha (petroleum), Aliylate         Daphnia       Chronic EL50 *40 mg/l Nominal Fresh       21 days water       Mobility       Based on Naphtha (petroleum), aliylate         Fish       Chronic EL50 10 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), aliylate: rea across betwe species         Fish       Chronic LL50 5.2 mg/l Nominal Fresh water       14 days       Mortality       Based on Naphtha (petroleum), aliylate:         Daphnia       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on Naphtha (petroleum), aliylate         Daphnia       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Mobility       Based on Naphtha (petroleum), aliylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Motality       Based on Naphtha (petroleum), aliylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Motality       Based on Naphtha (petroleum), aliylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), aliylate; rea across betwe species		Daphnia	0.5 mg/l Nominal	48 hours	Mobility	Straight run g
>40 mg/l Nominal Fresh water       Naphtha (petroleum), alkylate; rea across betwe species         Fish       Chronic EL50 10 Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), alkylate; rea across betwe species         Fish       Chronic LL50 5.2 mg/l Nominal Fresh water       14 days       Mortality       Based on: Naphtha (petroleum), catalytic reformed         Daphnia       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on Naphtha (petroleum), catalytic reformed         Daphnia       Chronic NOELR 16 mg/l Nominal Fresh water       21 days       Reproduction       Based on Naphtha (petroleum), catalytic reformed         Daphnia       Chronic NOELR 16 mg/l Nominal Fresh water       21 days       Mobility       Based on Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Mortality       Based on Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), catalytic reformed		Daphnia	mg/l Nominal	21 days	Reproduction	Naphtha (petroleum),
mg/l Nominal Fresh waterNaphtha (petroleum), alkylate; rea across betwe speciesFishChronic LL50 5.2 mg/l Nominal Fresh water14 daysMortalityBased on Naphtha (petroleum), catalytic reformedDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water21 daysReproductionBased on Naphtha (petroleum), catalytic reformedDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water21 daysMobilityBased on Naphtha (petroleum), alkylateDaphniaChronic NOELR 2.6 mg/l Nominal Fresh water21 daysMobilityBased on Naphtha (petroleum), alkylateFishChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMortalityBased on Naphtha (petroleum), alkylateFishChronic NOELR 2.6 mg/l Nominal Fresh water14 daysMortalityBased on Naphtha (petroleum), alkylateFishChronic NOELR 2.6 mg/l Nominal Fresh water21 daysReproductionBased on Naphtha (petroleum), catalytic reformedFishChronic NOELR 2.6 mg/l Nominal Fresh water21 daysReproductionBased on: Naphtha (petroleum), adkylate; erao across betwe species		Daphnia	>40 mg/l Nominal Fresh	21 days	Mobility	Naphtha (petroleum),
5.2 mg/l Nominal Fresh water       Naphtha (petroleum), catalytic reformed         Daphnia       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on Naphtha (petroleum), alkylate         Daphnia       Chronic NOELR 16 mg/l Nominal Fresh water       21 days       Mobility       Based on Naphtha (petroleum), alkylate         Daphnia       Chronic NOELR 16 mg/l Nominal Fresh water       21 days       Mobility       Based on Naphtha (petroleum), alkylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Mortality       Based on Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), alkylate; real across betwe species         tameBP E85       Product code 0000004759       Page: 11/1		Fish	mg/l Nominal	21 days	Reproduction	Naphtha (petroleum), alkylate; read across betwe
2.6 mg/l Nominal Fresh water       Naphtha (petroleum), alkylate         Daphnia       Chronic NOELR 16 mg/l Nominal Fresh water       21 days       Mobility       Based on Naphtha (petroleum), alkylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Mortality       Based on Naphtha (petroleum), alkylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Mortality       Based on Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), catalytic reformed         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       21 days       Reproduction       Based on: Naphtha (petroleum), alkylate; rea across betwee species         ext nameBP E85       Product code 0000004759       Page: 11/4		Fish	5.2 mg/l Nominal	14 days	Mortality	Naphtha (petroleum), catalytic
16 mg/l Nominal Fresh water       Naphtha (petroleum), alkylate         Fish       Chronic NOELR 2.6 mg/l Nominal Fresh water       14 days       Mortality       Based on Naphtha 		Daphnia	2.6 mg/l Nominal	21 days	Reproduction	Naphtha (petroleum),
2.6 mg/l Nominal       Naphtha         Fresh water       (petroleum), catalytic         Fish       Chronic NOELR       21 days       Reproduction       Based on:         Sector med       2.6 mg/l Nominal       Fresh water       Naphtha       (petroleum), catalytic         Sector med       2.6 mg/l Nominal       Fresh water       Sector med       Sector med         Sector med       Product code 0000004759       Page: 11/1		Daphnia	16 mg/l Nominal	21 days	Mobility	Naphtha (petroleum),
2.6 mg/l Nominal       Naphtha         Fresh water       (petroleum),         alkylate; real       across betwee         species       species		Fish	2.6 mg/l Nominal	14 days	Mortality	Naphtha (petroleum), catalytic
C C		Fish	2.6 mg/l Nominal	21 days	Reproduction	Naphtha (petroleum), alkylate; rea across betwe
				Duradius	t and 000004750	Page: 11/1
	t nameBP E85			Produc		raue. II/I

## Section 12. Ecological information

soil, plants

**Chronic PNEC** 

>0.4 mg/kg

**Conclusion/Summary** 

Toxic to aquatic life with long lasting effects.

### Persistence and degradability

Expected to be biodegradable. Non-persistent per IMO criteria

Product/ingredient name	Test	Result	Remarks
Ethanol	EPA	95 % - Readily - 15 days	Based on Ethanol
	EPA	84 % - Readily - 20 days	Based on Ethanol
	EPA	74 % - Readily - 5 days	Based on Ethanol
	EPA	74 % - Readily - 10 days	Based on Ethanol
Conclusion/Summary	Non-persiste	nt per IMO criteria	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ethanol	-	-	Readily
Gasoline	-	-	Inherent

### **Bioaccumulative potential**

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

Product/ingredient name	LogPow	BCF	Potential
Ethanol	-0.35	-	low
Gasoline	2 to 7	-	high
Toluene	2.73	90	low
n-hexane	4	-	high
Benzene	2.13	11	low

#### **Mobility in soil**

Mobility

Spillages may penetrate the soil causing ground water contamination. Not available.

Soil/water partition coefficient (Koc)

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

### Section 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Product nameBP E85		Product code 0000	004759 Page: 12/14
Version 1	Date of issue 22 November 2019	Format New Zealand	Language ENGLISH

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
New Zealand Class	UN3475	ETHANOL AND GASOLINE MIXTURE	3	11	PLANMABLE	Hazchem code •3YE Special provisions 333, 363
ADG Class	UN3475	MOTOR SPIRIT or GASOLINE or PETROL	3	11		Hazchem code •3YE Special provisions 333
IATA Class	UN3475	Ethanol and gasoline mixture	3	II		The environmentally hazardous substance mark may appear if required by other transportation regulations. <b>Quantity limitation</b> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341. <b>Special provisions</b> A156
IMDG Class	UN3475	ETHANOL AND GASOLINE MIXTURE	3	11		Emergency schedules F-E, S-E Special provisions 333, 363

PG\* : Packing group

# Section 15. Regulatory information

### New Zealand Regulatory Information

HSNO Approval Number	HSR002584					
HSNO Group Standard	FUEL ADDITIVES (Flammable, Toxic [6.7])					
HSNO Classification	<ul> <li>3.1 - FLAMMABLE LIQUIDS - Category A</li> <li>6.3 - SKIN IRRITATION - Category B</li> <li>6.4 - EYE IRRITATION - Category A (Irritant)</li> <li>6.6 - MUTAGENICITY - Category A</li> <li>6.7 - CARCINOGENICITY - Category B</li> <li>6.1 - ACUTE TOXICITY (aspiration) (oral) - Category E</li> <li>9.1 - AQUATIC ECOTOXICITY - Category B</li> </ul>					
Regulation according to other	oreign laws					
REACH Status	For the REACH status of this product please consult your company contact, as identified in Section 1.					
United States inventory (TSCA 8b)	Not determined.					
Australia inventory (AICS)	Contact local supplier or distributor.					
Canada inventory status	At least one component is not listed.					
China inventory (IECSC)	At least one component is not listed.					
Japan inventory (ENCS)	At least one component is not listed.					
Product nameBP E85	Product code 0000004759 Page: 13/14					
Version 1 Date of issue 22 No	vember 2019 Format New Zealand Language ENGLISH					

(ENGLISH)

### Section 15. Regulatory information

Korea inventory (KECI)	At least one component is not listed.
Philippines inventory (PICCS)	At least one component is not listed.
Taiwan Chemical Substances Inventory (TCSI)	Not determined.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	22 November 2019
Date of previous issue	No previous validation.
Version	1
Prepared by	Not available.
Key to abbreviations	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

#### 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.

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.