SAFETY DATA SHEET

91 Octane Petrol (Regular)

Section 1. Identification

Product name	91 Octane Petrol (Regular)
Product code	000003084
SDS no.	000003084
Historic SDS no.	ACQHF
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.
Product type	Liquid.
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	3.1 - FLAMMABLE LIQUIDS - Category A
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- 6.3 SKIN IRRITATION Category B
- 6.7 CARCINOGENICITY Category B
- 6.1 ACUTE TOXICITY (aspiration) (oral) Category E
- 9.1 AQUATIC ECOTOXICITY Category B

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 a dangerous good according to criteria in New Zealand Standard 5433:2007 Transport of Dangerous Goods on Land.

Routes of entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
GHS label elements		
Signal word	Danger	
Hazard statements	Extremely flammable liquid and vapour. Causes mild skin irritation. Suspected of causing cancer. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.	
Precautionary statements		
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. 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. If medical advice is needed: Have product container or label at hand.	
Product name91 Octane Petrol (R	egular) Product code 0000003084 Page: 1/15	

Section 2. Hazards identification

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/shower. 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	

anaemia and other blood diseases, including leukaemia.

Contains Benzene. Prolonged or repeated exposure to benzene can cause

Section 3. Composition/information on ingredients

Substance/mixture Mixture		
Ingredient name	%	CAS number
Gasoline	> 90	86290-81-5
Benzene	< 1	71-43-2
diisopropyl ether	< 1	108-20-3
Ethanol	< 1	64-17-5
methyl tert-butyl ether	<0.2	1634-04-4

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

Other hazards which do not

result in classification

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 if symptoms occur.
Indication of immediate medic	al attention and special treatment needed, if necessary
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting 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 ₂) (carbon monoxide, carbon dioxide)
Hazchem code	3YE
Special precautions for fire- fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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 Immediately contact emergency personnel. No action shall be taken involving any For non-emergency personnel 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. 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.

Product name91 Octane Petrol (Regular)		Product code 00000308	4 Page: 3/15
Version 1	Date of issue 25 June 2015	Format New Zealand	Language ENGLISH
			(ENGLISH)

Section 7. Handling and storage

ocolion 7: Handling and Storage			
Precautions for safe handling	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 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, including any incompatibilities	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 well-ventilated area, away from incompatible materials (see Section 10) and food and 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 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Product name91 Octane Petrol (Regular)

Version 1 Date of issue 25 June 2015

Section 8. Exposure controls/personal protection Ingredient name Exposure limits Gasoline ACGIH TLV (United States). TWA: 300 ppm 8 hours. Issued/Revised: 5/1996

		5/1996 TWA: 890 mg/m ³ 8 hours. Issued/Revised: 5/1996 STEL: 500 ppm 15 minutes. Issued/ Revised: 5/1996 STEL: 1480 mg/m ³ 15 minutes. Issued/ Revised: 5/1996
diisopropyl ether		NZ OSH (New Zealand). WES-STEL: 1300 mg/m ³ 15 minutes. Issued/Revised: 1/1994 WES-STEL: 310 ppm 15 minutes. Issued/ Revised: 1/1994 WES-TWA: 1040 mg/m ³ 8 hours. Issued/ Revised: 1/1994 WES-TWA: 250 ppm 8 hours. Issued/ Revised: 1/1994
Ethanol		NZ OSH (New Zealand). WES-TWA: 1880 mg/m ³ 8 hours. Issued/ Revised: 1/1994 WES-TWA: 1000 ppm 8 hours. Issued/ Revised: 1/1994
Benzene		NZ OSH (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 	
		choice of protective equipment will depend nt to ensure that all items of personal
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

Section 8. Exposure controls/personal protection

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 protection	Chemical splash goggles.
Hand protection	Nitrile gloves. 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. 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.
Skin protection	Use of protective clothing is good industrial practice. 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. Wear suitable protective clothing. Footwear highly resistant to chemicals. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static. When there is a risk of ignition wear inherently fire resistant protective clothes and gloves. Work clothing / overalls should be laundered on a regular basis. Laundering of contaminated work clothing should only be done by professional cleaners who have been told about the hazards of the contamination. Always keep contaminated work clothing away from uncontaminated work clothing and uncontaminated personal clothes. When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required. Personal protective equipment for the body should be approved by a specialist before handling this product.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. If there is a requirement for the use of a respiratory protective device, but the use of breathing apparatus (independent of ambient atmosphere) is not required, then a suitable filtering device must be worn. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. 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. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance

Physical state	Liquid.
Colour	Red. Orange. Purple. or Bronze
Odour	Gasoline [Strong]
рН	Not available.
Melting point	Not available.
Boiling point	30 to 210°C (86 to 410°F)
Drop Point	Not available.
Flash point	Closed cup: <-40°C (<-40°F)
Auto-ignition temperature	>350°C (>662°F)

Product name91 Octane Petrol (Regular)Version 1Date of issue 25 June 2015

Product code 0000003084 Format New Zealand Lang

4 Page: 6/15 Language ENGLISH (ENGLISH)

Section 9. Physical and chemical properties

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Lower and upper explosive (flammable) limits	Lower: 1.4% Upper: 7.6%
Vapour pressure	27 to 45 kPa (203.04 to 338.4 mm Hg) at 20°C
Vapour density	Not available.
Density	740 kg/m³ (0.74 g/cm³)
Solubility	insoluble in water.
Viscosity	Kinematic: 0.4 to 0.55 mm²/s (0.4 to 0.55 cSt) at 40°C
Explosive properties	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

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 the likel	<u>y routes of expos</u>	<u>ure</u>					
Inhalation	Vapours	may cause dro	wsiness and dizzines	S.			
Ingestion		to mouth, throa uid is aspirated	at and stomach. Aspir I into lungs.	ation hazard if sw	vallowed harmful or		
Skin contact	Causes r	nild skin irritati	on.				
Eye contact	No know	n significant ef	fects or critical hazard	S.			
Symptoms related to th	e physical, chemi	cal and toxico	ological characteristi	ics			
Inhalation	nausea c headach	or vomiting e ss/fatigue	r include the following	:			
Ingestion		Adverse symptoms may include the following: nausea or vomiting					
Skin contact	Adverse irritation redness	symptoms may	include the following	:			
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness						
Acute toxicity							
Product/ingredient name	Test	Species	Result	Exposure	Remarks		
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		

 Product name91 Octane Petrol (Regular)
 Product code 0000003084
 Page: 7/15

 Version 1
 Date of issue 25 June 2015
 Format New Zealand
 Language ENGLISH

 (ENGLISH)

Gasoline

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

Conclusion/Summary Not available.

Irritation/Corrosion

Product/ingredient name	Species	Result	Score	Exposure	Observation	Conc.	Remarks
Gasoline	Rabbit	Skin - Irritant	-	-	-	-	Based on Gasoline
	Rabbit	Eyes - Non- irritating to the eyes.	-	-	-	-	Based on Gasoline
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

Sensitisation

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

Potential chronic health effects

General	No known significant	effects or critical hazards.		
Inhalation	may irritate the nose, intentional overexpos	halation after often repeated expose mouth and respiratory tract. Solv sure to vapours can produce seriou consciousness, and possibly death	ent "sniffing" (abuse) or is central nervous system	
Ingestion	Not applicable.			
Skin contact	t Not applicable.			
Eye contact	Not applicable.			
Carcinogenicity	exposure. May cause hematopoietic system Benzene is classified carcinogenic to man.	g cancer. Risk of cancer depends e cancer Exposure to benzene man n causing blood disorders including by EEC as a category 1 carcinoge enzene - carcinogenic to humans (ay result in effects to the g anaemia and leukaemia. en - substances known to be	
Mutagenicity	No known significant	effects or critical hazards.		
Product name91 Oc	tane Petrol (Regular)	Product code 00000	03084 Page: 8/15	
Version 1 Date	of issue 25 June 2015	Format New Zealand	Language ENGLISH	
			(ENGLISH)	

Section 11. Toxicological information

Teratogenicity Developmental effects Fertility effects

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Carcinogenicity

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

Conclusion/Summary

Mutagenicity

May cause cancer

Product/ingredient name	Test	Experiment	Result	Remarks
Gasoline	Equivalent to OECD 476	Experiment: In vitro	Negative	Based on Gasoline
		Subject: Mammal - species unspecified		
	Equivalent to OECD 471	Experiment: In vitro	Negative	Based on Gasoline
		Subject: Non- mammalian species		
	EPA OPPTS 870. 5395	Experiment: In vivo	Negative	Based on Gasoline vapour condensate
		Subject: Unspecified Cell: Germ		
	Equivalent to OECD 475	Experiment: In vivo	Negative	Based on Gasoline
		Subject: Unspecified Cell: Germ		
Ethanol	Equivalent to OECD 476	Experiment: In vitro	Negative	Based on Ethanol
	-	Subject: Mammal - species unspecified		
	Equivalent to OECD 473	Experiment: In vitro	Negative	Based on Ethanol
		Subject: Non- mammalian species		
	Equivalent to OECD 478	Experiment: In vivo	Negative	Based on Ethanol
		Subject: Unspecified Cell: Germ		
Conclusion/Summary		Subject: Unspecified Cell: Germ		

Reproductive toxicity

Product name91 Octane Petrol (Regular)

Date of issue 25 June 2015 Version 1

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Result	Exposure	
Gasoline	-	Negative	-	Rat	Inhalation	2 generation	
	-	-	Negative	Rat	Inhalation	14 days	
Ethanol	-	Positive	-	Rat	Oral	2 generatio	
	-	-	Negative	Rat	Inhalation	18 days	
Conclusion/Summary	Fertility: met. Effects o	Not classified	ected of damaging d. Based on availa ation: Not classified	ble data, the cla	ssification criteria		
Aspiration hazard							
Name							
Gasoline							
	In a long kidney da effects w ppm), fer subsequ these kic by which Consequ has reco The liver question without c by a broa phenoba	-term inhalat amage and k vere not seen male mice ha ent scientific iney effects of the physiolo iently, the Ris gnized that the tumors that able significat chemical expo ad spectrum irbital).	this material can of ion study of whole idney tumors were a in female rats or ad an increased in studies have show only in the male rat gy of the male rat sk Assessment For hese responses an were increased in once because of th osure and becaus of chemicals not of e of the mouse live	e unleaded gaso e observed in m in mice. At the h cidence of liver wn that a broad t. Further studie uniquely predisporum of the Envi re not predictive the high-dose function the high-dose function the high spontar e the rate of the commonly considered	line vapors, expo ale rats. Similar l highest exposure tumors. Results f variety of chemic s have discovere pose it to these e ronmental Protect of a human heal emale mice are lin neous occurrence ir occurrence is a dered to be carci	sure-relate kidney level (205 from als cause ad the mea ffects. ction Agene th hazard. kewise of e even accelerated nogens (e.	
	is question Gasoline more that benzene blood eff and OSH respirato	onable. e is a comple in 2 volume% has been sh fects (anemia IA. Over exp ory tract, head	x mixture of hydro 6), toluene, and xy own to cause can a). Benzene is con osure to xylene ar dache and narcosi studies on xylene	carbons and con lene. Chronic et cer (leukemia) i sidered a huma nd toluene can c s. Some liver da	ntains benzene (f xposure to high le n humans and ot n carcinogen by ause irritation to amage and lung i	typically no evels of her advers IARC, NTF the upper	
	Solvent "sniffing" (abuse) or intentional overexposure to vapors can produce serious central nervous system effects, including unconsciousness, and possibly death.						
	Gasoline	e as a mixture	e is classified as a	2B (possible hu	ıman) carcinoger	n by IARC.	
			aust is classified a ion is based prima				
						-	
roduct name91 Octane Petrol	(Regular)		Pro	duct code 00000)03084 P a	age: 10/15	

Section 11. Toxicological information

engine exhaust condensates/extracts. Studies of the gaseous exhaust stream in animals did not provided sufficient evidence for classification as a carcinogen.

Section 12. Ecological information

Ecotoxicity

Inherently biodegradable. Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredien name	nt Species	Result/Test	Exposure	Effects	Remarks
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 Fresh water	48 hours	Mobility	Based on straight-run light gasoline
	Fish	Acute LL50 10 mg/l Nominal Fresh water	96 hours	Mortality	Based on Naphtha (petroleum), isomerisation
	Fish	Acute LL50 8.2 mg/l Nominal Fresh water	96 hours	Mortality	Based on Naphtha (petroleum), ligh alkylate
	Algae	Acute NOELR 0. 5 mg/l Nominal Fresh water	72 hours	(growth rate)	Based on Gasoline
	Daphnia	Acute NOELR 0. 5 mg/l Nominal Fresh water	48 hours	Mobility	Based on Straight run gas oil
	Daphnia	Chronic EL50 10 mg/l Nominal Fresh water	21 days	Reproduction	Based on Naphtha (petroleum), ligh alkylate
	Daphnia	Chronic EL50 >40 mg/l Nominal Fresh water	21 days	Mobility	Based on Naphtha (petroleum), ligh alkylate
	Fish	Chronic EL50 10 mg/l Nominal Fresh water	21 days	Reproduction	Based on: Naphtha (petroleum), ligh alkylate; read across between species
	Fish	Chronic LL50 5. 2 mg/l Nominal	14 days	Mortality	Based on Naphtha
Product name91 O	ctane Petrol (Regular)		Product	code 0000003084	Page: 11/15
Version 1 Date	e of issue 25 June 2015	Fo	ormat New Zeala	nd Lang	guage ENGLISH
					(ENGLISH)

Section 12.	Ecological in	formation			
		Fresh water			(petroleum), light catalytic reformed
	Daphnia	Chronic NOELR 2.6 mg/l Nominal Fresh water	21 days	Reproduction	Based on Naphtha (petroleum), light alkylate
	Daphnia	Chronic NOELR 16 mg/l Nominal Fresh water	21 days	Mobility	Based on Naphtha (petroleum), light alkylate
	Fish	Chronic NOELR 2.6 mg/l Nominal Fresh water	14 days	Mortality	Based on Naphtha (petroleum), light catalytic reformed
	Fish	Chronic NOELR 2.6 mg/l Nominal Fresh water	21 days	Reproduction	Based on: Naphtha (petroleum), light alkylate; read across between species
	soil, plants	Chronic PNEC >0.4 mg/kg	-	-	-
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

Persistence and degradability

The biodegradability of this material has not been determined.

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

Section 12. Ecological information				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
91 Octane Petrol (Regular)	-	-	Inherent	
Ethanol	-	-	Readily	

Bioaccumulative potential

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

Product/ingredient name	LogPow	BCF	Potential
Gasoline	2 to 7	-	high
diisopropyl ether	2.4	-	low
Ethanol	-0.35	-	low
Benzene	2.13	11	low

Mobility in soil

Mobility Soil/water partition coefficient (Koc) Spillages may penetrate the soil causing ground water contamination. Not available.

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 non- recyclable 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.

Regulatory **Proper shipping** Classes PG* Label Additional information name information **New Zealand** UN1203 MOTOR SPIRIT or 3 Ш The marine pollutant GASOLINE or mark is not required Class PETROL. when transported by road or rail. Hazchem code 3YE **ADG Class** UN1203 MOTOR SPIRIT or 3 П Hazchem code GASOLINE or 3YE PETROL Initial emergency response quide 14 Product name91 Octane Petrol (Regular) Product code 000003084 Page: 13/15 **Format New Zealand** Language ENGLISH Version 1 Date of issue 25 June 2015 (ENGLISH)

Section 14. Transport information

IATA Class	UN1203	MOTOR SPIRIT or GASOLINE or PETROL	3	II	The environmentally hazardous substance mark may appear if required by other transportation regulations.
IMDG Class	UN1203	MOTOR SPIRIT or GASOLINE or PETROL. Marine pollutant	3	II	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules (EmS)</u> F-E, S-E

PG* : Packing group

Section 15. Regulatory information

New Zealand Regulatory Inform	nation
HSNO Approval Number	HRC000003
HSNO Group Standard	Not applicable.
HSNO Classification	 3.1 - FLAMMABLE LIQUIDS - Category A 6.3 - SKIN IRRITATION - Category B 6.7 - CARCINOGENICITY - Category B 6.1 - ACUTE TOXICITY (aspiration) (oral) - Category E 9.1 - AQUATIC ECOTOXICITY - Category B
Regulation according to other	foreign 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)	Australia inventory (AICS): Contact local supplier or distributor.
Canada inventory status	Not determined.
China inventory (IECSC)	Not determined.
Japan inventory (ENCS)	Not determined.
Korea inventory (KECI)	At least one component is not listed.
Philippines inventory (PICCS)	Not determined.
Taiwan inventory (CSNN)	Not determined.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	25 June 2015
Date of previous issue	No previous validation.
Version	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 us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from

Product name91 Octane Petrol (Regular)		Product code 00000	003084 Page: 14/15
Version 1	Date of issue 25 June 2015	Format New Zealand	Language ENGLISH
			(ENGLISH)

Section 16. Other information

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.