SAFETY DATA SHEET



Regular Unleaded petrol with 10% ethanol

Section 1. Identification

GHS product identifier Regular Unleaded petrol with 10% ethanol

Other means of identification

E10, E10M

Product code 0000002889 SDS no. 0000002889

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

Use of the substance/

Use only as a motor fuel for spark ignition engines. NOT for aviation use. Should

NOT be used as a solvent nor cleaning agent.

Manufacturer

mixture

Supplier BP Australia Pty Ltd

Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 53 004 085 616

www.bp.com.au

Technical Helpline Number: 1300 139 700

EMERGENCY TELEPHONE

NUMBER

1800 638 556

Section 2. Hazard(s) identification

Classification of the substance or mixture FLAMMABLE LIQUIDS - Category 1
SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

GERM CELL MUTAGENICITY - Category 1B

CARCINOGENICITY - Category 1B

TOXIC TO REPRODUCTION (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

ASPIRATION HAZARD - Category 1

GHS label elements

Hazard pictograms







Signal word DANGER

Hazard statements H224 - Extremely flammable liquid and vapour.

H319 - Causes serious eye irritation. H315 - Causes skin irritation. H340 - May cause genetic defects.

H350 - May cause cancer.

H361 - Suspected of damaging the unborn child. H304 - May be fatal if swallowed and enters airways.

H336 - May cause drowsiness or dizziness.

Precautionary statements

General P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Product name Regular Unleaded petrol with 10% ethanol Product code 0000002889 Page: 1/18

Version 1 Date of issue 28 September 2015 Format Australia Language ENGLISH

Section 2. Hazard(s) identification

Prevention

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing vapour.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective

clothing

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P240 - Ground/bond container and receiving equipment.

P233 - Keep container tightly closed.

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P273 - Avoid release to the environment.

Response P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P235 - Keep cool. P405 - Store locked up.

Disposal P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label

elements

Not applicable.

Other hazards which do not result in classification

Contains Benzene. Prolonged or repeated exposure to benzene can cause

anaemia and other blood diseases, including leukaemia.

Section 3. Composition and ingredient information

Substance/mixture

Mixture

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. Contains ethanol.

Ingredient name	% (w/w)	CAS number
Gasoline	>90	86290-81-5
Ethanol	<10	64-17-5
Contains:		
Benzene	<1	71-43-2
tert-butyl methyl ether(MTBE)	<1	1634-04-4
2-methylpropan-2-ol	<1	75-65-0
diisopropyl ether	<1	108-20-3
Polycyclic aromatic hydrocarbons (PAHs)	<1	mixture

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

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

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact In

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Product name Regular Unleaded petrol with 10% ethanol Product code 0000002889 Page: 2/18

Version 1 Date of issue 28 September 2015 Format Australia Language ENGLISH

Section 4. First-aid measures

Inhalation If inhaled, remove to fresh air. Get medical attention.

> If exposure to vapour, mists or fumes causes drowsiness, headache, blurred vision or irritation of the eyes, nose or throat, remove immediately to fresh air. Keep patient

warm and at rest. If any symptoms persist obtain medical advice.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Clean shoes thoroughly before reuse. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly

footwear, must be discarded. Get medical attention.

Do not induce vomiting. Never give anything by mouth to an unconscious person. If Ingestion

unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical

attention immediately.

Most important symptoms/effects, acute and delayed

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

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

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

> 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.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or

spray.

Unsuitable extinguishing media

Do not use water jet.

Specific hazards arising

from the chemical

Extremely flammable liquid and vapour. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 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. Liquid will float and may reignite on surface of water.

Hazardous thermal decomposition products Combustion products may include the following:

carbon dioxide carbon monoxide

other hazardous substances.

Special protective actions 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 positive pressure self-contained breathing apparatus

(SCBA) and full turnout gear.

Product name Regular Unleaded petrol with 10% ethanol

Product code 0000002889 Page: 3/18

Date of issue 28 September 2015 Version 1 **Format Australia** Language ENGLISH

Section 5. Fire-fighting measures

Hazchem code

3YF

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. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. Eliminate all ignition sources.

For emergency responders

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. 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.

Methods and material for containment and cleaning up

Small spill

Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. 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 handling

Protective measures

Version 1

Do not fill container while it is in or on a vehicle. Static electricity may ignite vapour and cause fire. Place container on ground when filling and keep nozzle in contact with container.

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Take

Product name Regular Unleaded petrol with 10% ethanol

Date of issue 28 September 2015

Product code 0000002889

Format Australia Language ENGLISH

(Australia)

(ENGLISH)

Page: 4/18

Section 7. Handling and storage

precautionary measures against electrostatic discharges. Avoid contact of spilt material and runoff with soil and surface waterways. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid exposure during pregnancy. Do not swallow. Aspiration hazard if swallowed. Can enter lungs and cause damage. Never siphon by mouth.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store 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. Store locked up. 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. 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. 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.

Section 8. Exposure controls and personal protection

Control parameters

Version 1

Occupational exposure limits

Product name Regular Unleaded petrol with 10% ethanol

Date of issue 28 September 2015 Format Australia

Language ENGLISH

(Australia)

Product code 0000002889

(ENGLISH)

Page: 5/18

Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
Gasoline	ACGIH TLV (United States). TWA: 300 ppm 8 hours. Issued/Revised: 5/1996
	TWA: 890 mg/m³ 8 hours. Issued/Revised: 5/1996
	STEL: 500 ppm 15 minutes. Issued/
	Revised: 5/1996 STEL: 1480 mg/m³ 15 minutes. Issued/
Ethanol	Revised: 5/1996
Ethanol	Safe Work Australia (Australia). TWA: 1880 mg/m³ 8 hours. Issued/Revised:
	5/1995
	TWA: 1000 ppm 8 hours. Issued/Revised:
	5/1995
tert-butyl methyl ether(MTBE)	Safe Work Australia (Australia).
	STEL: 275 mg/m³ 15 minutes. Issued/
	Revised: 4/2002
	STEL: 75 ppm 15 minutes. Issued/Revised:
	4/2002
	TWA: 92 mg/m³ 8 hours. Issued/Revised:
	4/2002
	TWA: 25 ppm 8 hours. Issued/Revised:
2 mathylpropan 2 al	4/2002
2-methylpropan-2-ol	Safe Work Australia (Australia). STEL: 455 mg/m³ 15 minutes. Issued/
	Revised: 5/1995
	STEL: 150 ppm 15 minutes. Issued/
	Revised: 5/1995
	TWA: 303 mg/m³ 8 hours. Issued/Revised:
	5/1995
	TWA: 100 ppm 8 hours. Issued/Revised: 5/1995
diisopropyl ether	Safe Work Australia (Australia).
	STEL: 1300 mg/m³ 15 minutes. Issued/
	Revised: 5/1995
	STEL: 310 ppm 15 minutes. Issued/
	Revised: 5/1995
	TWA: 1040 mg/m³ 8 hours. Issued/Revised: 5/1995
	TWA: 250 ppm 8 hours. Issued/Revised:
	5/1995
Polycyclic aromatic hydrocarbons (PAHs)	Safe Work Australia (Australia).
	TWA: 0.2 mg/m ³ 8 hours.
Benzene	Safe Work Australia (Australia).
	TWA: 3.2 mg/m³ 8 hours. Issued/Revised:
	4/2003
	TWA: 1 ppm 8 hours. Issued/Revised:
	4/2003

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant

Product name Regular Unleaded petrol with 10% ethanol

Product code 0000002889

Page: 6/18

Version 1 Date of issue 28 September 2015

Format Australia

Language ENGLISH

(Australia)

Section 8. Exposure controls and personal protection

airborne concentrations below their respective occupational exposure limits. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Skin protection

Hand protection

Skin protection

Recommended: splash goggles

Wear chemical resistant gloves.

Do not re-use gloves. Protective gloves must give suitable protection against mechanical risks (i.e. abrasion, blade cut and puncture). Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis. The frequency of replacement will depend upon the circumstances of use.

Recommended: Gloves made from fluoroelastomer resistant to hydrocarbons and a wide range of chemicals. Nitrile gloves.

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 selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: overall

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: nitrile rubber

Product code 0000002889

Product name Regular Unleaded petrol with 10% ethanol

Format Australia

_...

Version 1 Date of issue 28 September 2015

Language ENGLISH

(Australia)

(ENGLISH)

Page: 7/18

Section 8. Exposure controls and personal protection

Respiratory protection Use with adequate ventilation.

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.

Recommended: full-face mask

Recommended: If ventilation is inadequate, use respirator that will protect against

organic vapour and dust/mist.

Respiratory protection: AS/NZS 1715 and AS/NZS 1716

Gloves: AS/NZS 2161.1

Eye protection: AS/NZS 1336 and AS/NZS 1337

Section 9. Physical and chemical properties

Appearance

Physical state

Colour

Liquid. Clear and Bright
Pale Yellow.to Orange/Red.

Odour

Hydrocarbon. [Strong]

Odour threshold Not available.

PH Not available.

Melting point Not available.

Boiling point 30 to 210°C (86 to 410°F)

Flash point Closed cup: <-40°C (<-40°F) [Pensky-Martens.]

Evaporation rate Not available.

Flammability (solid, gas) Not applicable. Based on - Physical state

Lower and upper explosive Lower: 1.4% (flammable) limits Upper: 7.6%

Vapour pressure 30.1 to 100.3 kPa (225.6 to 752 mm Hg)

Vapour density Not available.

Relative density 710 to 750 kg/m³ (0.71 to 0.75 g/cm³)

Solubility Water soluble.(Moderate.)

Partition coefficient: n-

octanol/water

Not available.

Auto-ignition temperature >350°C (>662°F) **Decomposition temperature**Not available.

Viscosity Kinematic: 0.4 to 0.55 mm²/s (0.4 to 0.55 cSt) at 40°C Remarks Reid vapor pressure (RVP): 55 to 100 kPa (40 °C)

Section 10. Stability and reactivity

ReactivityNo specific test data available for this product. Refer to Conditions to avoid and

Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur.

reactions 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.

Product name Regular Unleaded petrol with 10% ethanol Product code 0000002889 Page: 8/18

Version 1 Date of issue 28 September 2015 Format Australia Language ENGLISH

Section 10. Stability and reactivity

Incompatible materials
Hazardous decomposition

Reactive or incompatible with the following materials: oxidising materials.

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

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products

Product/ingredient name	Result	Species	Dose	Exposure
Gasoline	LC50 Inhalation Vapour	Rat	>7630 mg/m³ Nominal	4 hours
	LC50 Inhalation Vapour	Rat	>5610 mg/m³ analytical	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124.7 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	116.9 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	133.8 mg/l	4 hours
	LD50 Oral	Rat	10470 mg/kg	-
diisopropyl ether	LC50 Inhalation Vapour	Rat	40.5 mg/m ³	1 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	8470 mg/kg	-
tert-butyl methyl ether (MTBE)	LC50 Inhalation Vapour	Rat	85 mg/l	4 hours
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-2-ol	LD50 Oral	Rabbit	3559 mg/kg	-
• • •	LD50 Oral	Rat	2743 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Gasoline	Skin - Irritant	Rabbit	-	-	-
	Eyes - Non-irritating to the eyes.	Rabbit	-	-	-
Ethanol	Skin - Non-irritant to skin.	Rabbit	-	-	-
	Eyes - Cornea opacity	Rabbit	-	-	-
	Eyes - Iris lesion	Rabbit	-	-	-
	Eyes - Irritant	Rabbit	-	-	-
tert-butyl methyl ether (MTBE)	Skin - Irritation	Rabbit	-	-	-
•	Eyes - Non-irritating to the eyes.	Rabbit	-	-	-

Skin Causes skin irritation.

Eyes Causes serious eye irritation.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Gasoline	Equivalent to OECD 476	Experiment: In vitro	Negative
		Subject: Mammal - species unspecified	
	Equivalent to OECD 471	Experiment: In vitro	Negative
		Subject: Non-mammalian species	
	EPA OPPTS 870.5395	Experiment: In vivo Subject: Unspecified	Negative
	Equivalent to OECD	Cell: Germ	Negativo
	Equivalent to OECD 475	Experiment: In vivo	Negative

Product name Regular Unleaded petrol with 10% ethanol Product code 0000002889 Page: 9/18

Version 1 Date of issue 28 September 2015 Format Australia Language ENGLISH

Section 11. Toxicological information
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Version 1

Date of issue 28 September 2015

Ethanol	Equivalent 476	to OECD	Subject: Cell: Ger Experime	m			Negative	
	Equivalent 473	to OECD	Subject: unspecifi Experime	ied	al - species vitro		Negative	
	Equivalent 478	to OECD	Subject: Experime		ammalian sp vivo	ecies	Negative	
tert-butyl methyl ether (MTBE)	EU B 13/14	1	Subject: Cell: Ger Experime	m			Negative	
,	OECD 471		Experime	ent: In v			Negative	
	OECD 476		Experime	ent: In v			Negative	
	Equivalent 473	to OECD	Subject: Experime		ammalian sp ⁄itro	ecies	Negative	
	Equivalent 486	to OECD	Subject: Experime		ammalian sp vivo	ecies	Negative	
	Equivalent OPPTS 87		Subject: Cell: Sor Experime Subject:	natic ent: In v	vivo		Negative	
	Equivalent OPPTS 79	to EPA 8 5385	Cell: Sor Experime	natic			Negative	
	0.1.10.70	0.0000	Subject: Cell: Sor		cified			
Conclusion/Summary Carcinogenicity		se genetic de	Cell: Sor		cified			
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Conclusion/Summary Carcinogenicity Product/ingredient name Gasoline	May cau Result Negative -	se genetic de Inhalation -	Cell: Sor efects.	natic ecies		e		osure weeks
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Carcinogenicity Product/ingredient name Gasoline Ethanol tert-butyl methyl ether (MTBE) Conclusion/Summary Reproductive toxicity	Result Negative - Unspecified Negative - Unspecified Positive - Positive - In Unspecified May cau	se genetic de Inhalation - d Dermal - d Oral - Unspec Oral - Unspe nhalation - d	Cell: Sor efects. Spering Ra Modified Modified Ra Ra Develope	ecies t ouse t tt	Dos	e	113 102 105 104 2 ye	weeks weeks weeks weeks ars Exposure
Carcinogenicity Product/ingredient name Gasoline Ethanol tert-butyl methyl ether (MTBE) Conclusion/Summary Reproductive toxicity Product/ingredient name	Result Negative - Unspecified Negative - Unspecified Positive - Positive - In Unspecified May cau	se genetic de Inhalation - d Dermal - d Oral - Unspec Oral - Unspec halation - d se cancer Fertility	Cell: Sor efects. Spering Ra Modified Modified Ra Ra Develope	ecies t buse buse t t mental	Dos - - - - - Species	e	113 102 105 104 2 ye	weeks weeks weeks weeks ars Exposure 2 generation

Format Australia

(Australia)

Language ENGLISH

- - Negative Rat Inhalation 9 days

Specific target organ toxicity (single exposure)

Name Category Route of Target organs exposure

Gasoline Narcotic effects Category 3 Not applicable. diisopropyl ether Category 3 Not applicable. Narcotic effects tert-butyl methyl ether(MTBE) Category 3 Not applicable. Narcotic effects Benzene Category 3 Not applicable. Respiratory tract

> irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name Category Route of Target organs

exposure

Benzene Category 1 Not determined blood system

Aspiration hazard

Name Result

Gasoline ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact Causes serious eye irritation.

Inhalation Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact Causes skin irritation.

Irritating to mouth, throat and stomach. Aspiration hazard if swallowed -- harmful or

fatal if liquid is aspirated into lungs.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion Adverse symptoms may include the following:

nausea or vomiting reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Product name Regular Unleaded petrol with 10% ethanol Product code 0000002889 Page: 11/18

Version 1 Date of issue 28 September 2015 Format Australia Language ENGLISH

Eye contact Vapour, mist or fume may cause eye irritation. Exposure to vapour, mist or fume

may cause stinging, redness and watering of the eyes.

Inhalation Vapour, mist or fume may irritate the nose, mouth and respiratory tract.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Ingestion If swallowed, may irritate the mouth, throat and digestive system. If swallowed, may

cause abdominal pain, stomach cramps, nausea, vomiting, diarrhoea, dizziness and

drowsiness.

General Solvent "sniffing" (abuse) or intentional overexposure to vapours can produce

serious central nervous system effects, including unconsciousness, and possibly

death.

Carcinogenicity May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity May cause genetic defects.

Teratogenicity Suspected of damaging the unborn child.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Other information

Gasoline - Excess exposure to vapors may produce headaches, dizziness, nausea, drowsiness, irritation of eyes, nose and throat and central nervous system depression. Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Inhalation of unleaded gasoline vapors did not produce birth defects in laboratory animals. Ingestion of this material can cause gastrointestinal irritation and diarrhea.

In a long-term inhalation study of whole unleaded gasoline vapors, exposure-related kidney damage and kidney tumors were observed in male rats. Similar kidney effects were not seen in female rats or in mice. At the highest exposure level (2056 ppm), female mice had an increased incidence of liver tumors. Results from subsequent scientific studies have shown that a broad variety of chemicals cause these kidney effects only in the male rat. Further studies have discovered the means by which the physiology of the male rat uniquely predispose it to these effects. Consequently, the Risk Assessment Forum of the Environmental Protection Agency has recognized that these responses are not predictive of a human health hazard. The liver tumors that were increased in the high-dose female mice are likewise of questionable significance because of their high spontaneous occurrence even without chemical exposure and because the rate of their occurrence is accelerated by a broad spectrum of chemicals not commonly considered to be carcinogens (e.g., phenobarbital).

Thus, the significance of the mouse liver tumor response in terms of human health is questionable.

Gasoline is a complex mixture of hydrocarbons and contains benzene (typically no more than 2 volume%), toluene, and xylene. Chronic exposure to high levels of benzene has been shown to cause cancer (leukemia) in humans and other adverse blood effects (anemia). Benzene is considered a human carcinogen by IARC, NTP and OSHA. Over exposure to xylene and toluene can cause irritation to the upper respiratory tract, headache and narcosis. Some liver damage and lung inflammation were seen in chronic studies on xylene in guinea pigs but not in rats.

Solvent "sniffing" (abuse) or intentional overexposure to vapors can produce serious central nervous system effects, including unconsciousness, and possibly death.

Product code 0000002889

Product name Regular Unleaded petrol with 10% ethanol

Format Australia

Page: 12/18

Version 1 Date of issue 28 September 2015

Language ENGLISH

(Australia)

Gasoline: Additional toxicity information on the components:

Benzene: Acute toxicity of benzene results primarily from depression of the central nervous system (CNS). Inhalation of concentrations over 50 ppm can produce headache, lassitude, weariness, dizziness, drowsiness, or excitation. Exposure to very high levels can result in unconsciousness and death.

Benzene: Long-term overexposure to benzene has been associated with certain types of leukemia in humans. In addition, the International Agency for Research on Cancer (IARC), the National Toxicology Program, and OSHA consider benzene to be a human carcinogen. Chronic exposures to high levels of benzene have been reported to cause adverse blood effects including anemia. Benzene exposure can occur by inhalation and absorption through the skin.

Inhalation and forced feeding studies of benzene in laboratory animals have produced a carcinogenic response in a variety of organs, including possibly leukemia, other adverse effects on the blood, chromosomal changes and some effects on the immune system. Exposure to benzene at levels up to 300 ppm did not produce birth defects in animal studies; however, exposure to higher dosage levels resulted in a reduction of body weight of the rat pups (fetotoxicity). Changes in the testes have been observed in mice exposed to benzene at 300 ppm, but reproductive performance was not altered in rats exposed to benzene at the same level. Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material.

Toluene: Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this material. Deliberate inhalation of high concentrations of toluene has been linked to damage of the brain, liver and kidney. Inhalation of very high concentrations of toluene, such as in cases of solvent abuse, has resulted in sudden death which may be a result of cardiac arrhythmia or central nervous system depression. Mental and/or growth retardation has been reported in children of women who deliberately inhale toluene during pregnancy (usually at thousands of ppm). Foetal developmental toxicity was observed when pregnant rats were exposed to toluene at levels of 1500 ppm. Maternal toxicity was also observed at this concentration. Prolonged, high level exposure to toluene in laboratory animals has resulted in hearing loss. Exposure studies in rats have resulted in adverse effects on the kidney, liver and central nervous system. Studies in occupationally exposed individuals indicate that toluene exposure has been associated with impaired colour vision and decreased performance in some neurobehavioural tests. There are occupational studies which report an association between inhalation exposure to toluene and adverse effects on reproduction including spontaneous abortion. The methodology of these studies and the reliability of the results have been questioned. In a two-generation study in rats, inhalation of toluene at levels up to 2000 ppm did not produce adverse effects on fertility or reproductive performance.

Xylenes: Xylene has been reported to cause central nervous system effects at concentrations above the recommended exposure limit. Xylene vapour becomes irritating at relatively high levels. In one study, eye irritation was reported at exposures of 460 ppm and in one person at 230 ppm after 15 minutes. In another study, no one reported eyes, nose and throat irritation at mixed xylene exposures up to 230 ppm for 30 minutes. Dermal LD50 is expected to be greater than 10g/kg in rabbits, based on test results from similar materials.

Mixed xylenes caused slight hearing loss in rats exposed to 800 ppm in the air for 14 hours/day for six weeks. There is no information available for lower concentrations; however, similar chemicals that have caused these hearing effects at similar concentrations have not caused effects at lower concentrations.

Pregnant animals exposed to xylene or its isomers have been reported to cause development toxicity in rodents when exposed by inhalation. The developmental

Product name Regular Unleaded petrol with 10% ethanol

Product code 0000002889

Page: 13/18

Version 1 Date of issue 28 September 2015

Format Australia

Language ENGLISH

(Australia)

effects observed consisted of delayed development and minor skeletal variations, but no malformations. Because of the high exposure levels used in these studies, we do not believe that these results imply an increased risk of reproductive toxicity to workers exposed to xylene levels at or below the exposure limits.

Xylene and its isomers are not genotoxic.

Technical grade xylene has been tested in a National Toxicology Program carcinogenicity study in rats and mice dosed orally for two years. There was no evidence of carcinogenicity.

Ethylbenzene - The National Toxicology Program (NTP) conducted a 13-week inhalation study with male and female rats and mice at exposure concentrations ranging from 100 to 1000 ppm ethylbenzene. No rats or mice died during the study. Kidney, liver, and lung weights were increased in the exposed rats, while weight increases were observed only in the livers of exposed mice. Treatment-related histopathologic changes were not observed in any tissues of rats and mice. NTP also exposed male and female rats and mice by inhalation to 0, 75, 250, or 750 ppm ethylbenzene for 2 years. There was a statistically significant increase in the number of kidney tumors in male and female rats at 750 ppm. There were also increased incidences of lung tumors in male mice and liver tumors in female mice that were statistically significant at 750 ppm. Except for the male rat kidney tumors, the incidence of the tumors were within the range observed for non-exposed animals from other studies conducted by NTP. The significance of these findings to humans is unknown. Ethylbenzene is not genotoxic. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and found it to be possibly carcinogenic to humans (Group 2B).

Ethylbenzene is not genotoxic.

Naphthalene has been reported to cause developmental toxicity in mice after oral exposure to relatively high dose levels, but developmental toxicity was not observed in NTP (National Toxicology Program) sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in glucose-6-phosphate dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene may cause headache and nausea. Airborne exposure can result in eye irritation. Naphthalene exposure has been associated with cataracts in animals and humans.

Ethanol - Human data: In humans excessive consumption of alcoholic beverages during pregnancy is associated with the induction of Fetal Alcohol Syndrome in the offspring. Reduced birth weight and physical and mental defects occur. There is no evidence that such effects might be caused by exposures other than direct ingestion of alcoholic drinks. In humans high lifetime consumption of alcoholic beverages can be associated with certain cancers and effects on the liver. There is no evidence that these can be caused by exposure other than direct ingestion of alcoholic drinks (IARC 1988).

Section 12. Ecological information

Toxicity

Version 1

Product/ingredient name	Result	Species	Exposure
Gasoline	Acute EC50 15.41 mg/l Nominal Fresh water	Micro-organism	40 hours
	Acute EL50 3.1 mg/l Nominal Fresh water	Algae	72 hours
	Acute EL50 3.7 mg/l Nominal Fresh water	Algae	96 hours
	Acute EL50 4.5 mg/l Nominal Fresh water	Daphnia	48 hours

Product name Regular Unleaded petrol with 10% ethanol

Date of issue 28 September 2015

Product code 0000002889

Format Australia Language ENGLISH

(Australia)

(ENGLISH)

Page: 14/18

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	Acute LL50 10 mg/l Nominal Fresh water	Fish	96 hours
	Acute LL50 8.2 mg/l Nominal Fresh water	Fish	96 hours
	Acute NOELR 0.5 mg/l Nominal Fresh water	Algae	72 hours
	Acute NOELR 0.5 mg/l Nominal Fresh water	Daphnia	48 hours
	Chronic EL50 10 mg/l Nominal Fresh water	Daphnia	21 days
	Chronic EL50 >40 mg/l Nominal Fresh water	Daphnia	21 days
	Chronic EL50 10 mg/l Nominal Fresh water	Fish	21 days
	Chronic LL50 5.2 mg/l Nominal Fresh water	Fish	14 days
	Chronic NOELR 2.6 mg/l Nominal Fresh water	Daphnia	21 days
	Chronic NOELR 16 mg/l Nominal Fresh water	Daphnia	21 days
	Chronic NOELR 2.6 mg/l Nominal Fresh water	Fish	14 days
	Chronic NOELR 2.6 mg/l Nominal Fresh water	Fish	21 days
	Chronic PNEC >0.4 mg/kg	soil, plants	_
Ethanol	EC50 675 mg/l	Algae	4 days
	EC50 4432 mg/l	Aquatic plants	7 days
	Acute LC50 5012 mg/l	Daphnia	48 hours
	Acute LC50 153 g/l	Fish	96 hours
	Acute LC50 14.2 g/l	Fish	96 hours
	Chronic LC50 2 mg/l	Daphnia	10 days
	Chronic LC50 9.6 mg/l	Daphnia	9 days
tert-butyl methyl ether(MTBE)	Acute EC50 472 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 200 mg/l Marine water	Crustaceans	96 hours
	Acute LC50 672 mg/l Fresh water	Fish	96 hours
	Acute LC50 574 mg/l Marine water	Fish	96 hours
	Chronic NOEC 26 mg/l Marine water	Crustaceans	28 days
	Chronic NOEC 51 mg/l Fresh water	Daphnia	21 days
Conclusion/Summary	Toxic to aquatic life with long lasting	effects.	-

Persistence and degradability

The biodegradability of this material has not been determined.

Product/ingredient name	Test	Result	Dose	Inoculum
Ethanol	EPA	95 % - Readily - 15 days	-	-
	EPA	84 % - Readily - 20 days	-	-
	EPA	74 % - Readily - 5 days	-	-
	EPA	74 % - Readily - 10 days	-	-
tert-butyl methyl ether(MTBE)	not guideline	100 % - 1.25 days	-	-
	Modelled data	61 to 69 % - 151 days	-	-
	OECD 301 D	9.24 % - Not readily - 28 days	-	-
	OECD 301 D	1.8 % - Not readily - 28 days	-	-
	OECD 301 D	0 % - Not readily - 28 days	-	-
	Modelled data	0 % - 250 days	-	-
Conclusion/Summary	Partially biode	gradable.		
Product/ingredient name	Aquatic half-life	Photolysi	s	Biodegradability
Ethanol	-	-		Readily

Bioaccumulative potential

Product name	Regular Unleaded petrol with 10% ethanol		Product code	0000002889	Page: 15/18
Version 1	Date of issue 28 September 2015	Format	Australia	Language	ENGLISH
			(Australia)		(ENGLISH)

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

Product/ingredient name	LogPow	BCF	Potential
Gasoline	2 to 7	-	high
Ethanol	-0.35	-	low
diisopropyl ether	2.4	-	low
tert-butyl methyl ether(MTBE)	1.04	-	low
2-methylpropan-2-ol	0.317	-	low
Benzene	2.13	11	low

Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Mobility

Spillages may penetrate the soil causing ground water contamination.

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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. 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.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN1203	UN1203	UN1203
UN proper shipping name	MOTOR SPIRIT or GASOLINE or PETROL	MOTOR SPIRIT or GASOLINE or PETROL MARINE POLLUTANT	MOTOR SPIRIT or GASOLINE or PETROL
Transport hazard class(es)	3 FLAMMABLE LIQUID 3	3	3
Packing group	II	II	II
Environmental hazards	No.	Yes.	No.

Product name Regular Unleaded petrol with 10% ethanol

Product code 0000002889

Version 1 Date of issue 28 September 2015 Format Australia Language ENGLISH

(Australia)

(ENGLISH)

Page: 16/18

Section 14. Transport information

Additional information **Hazchem code**

3YE

The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.

The environmentally hazardous substance mark may appear if required by other transportation

Initial emergency response

<u>quide</u> 14

(EmS)

Emergency schedules regulations.

F-E,S-E

Special precautions for user Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not scheduled When packed in containers having capacity of greater than 20 litres.

S5. When packed in containers having capacity of less than 20 litres.

Consumer products - This product is exempt per Appendix A of the SUSMP.

Industrial Products - Labelling requirements for SUSMP do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with NOSHC National Code of Practice for labelling of workplace substances.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International lists

National inventory

REACH Status For the REACH status of this product please consult your company contact, as

identified in Section 1.

Australia inventory (AICS) All components are listed or exempted. **Canada inventory** All components are listed or exempted.

China inventory (IECSC) At least one component is not listed.

Japan inventory (ENCS) Not determined. Not determined. Korea inventory (KECI) **Philippines inventory** Not determined.

(PICCS)

Not determined. Taiwan inventory (CSNN)

United States inventory

(TSCA 8b)

At least one component is not listed.

Section 16. Any other relevant information

History

Date of printing 28/09/2015 Date of issue/Date of 28/09/2015

revision

Date of previous issue No previous validation

Version

Product Stewardship

Product name Regular Unleaded petrol with 10% ethanol **Product code** 0000002889 Page: 17/18

Date of issue 28 September 2015 Version 1 **Format Australia** Language ENGLISH

Section 16. Any other relevant information

Key to abbreviations

ADG = Australian Dangerous Goods

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOHSC = National Occupational Health and Safety Commission

STEL = Short term exposure limit

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

TWA = Time weighted average VOC = Volatile Organic Compound

SADT = Self-Accelerating Decomposition Temperature

Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 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, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0,

72623-87-1, 74869-22-0, 90669-74-2

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 1, H224	Expert judgment
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2A, H319	Expert judgment
Muta. 1B, H340	Expert judgment
Carc. 1B, H350	Expert judgment
Repr. 2, H361 (Unborn child)	Expert judgment
STOT SE 3, H336	Expert judgment
Asp. Tox. 1, H304	Expert judgment

▼ Indicates information that has changed from previously issued version.

Notice to reader

Version 1

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Product name Regular Unleaded petrol with 10% ethanol

Format Australia

Page: 18/18

Date of issue 28 September 2015

Language ENGLISH

(Australia)

Product code 0000002889