SAFETY DATA SHEET

Ultimate 98 petrol



Section 1. Identification

Section 1. Identific	ation
GHS product identifier	Ultimate 98 petrol
Product code	000002791
SDS no.	000002791
Relevant identified uses of the	e substance or mixture and uses advised against
Use of the substance/ mixture	 ✓se only as a motor fuel for spark ignition engines. NOT for aviation use. Should NOT be used as a solvent nor cleaning agent. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Manufacturer	
Supplier	BP Australia Pty Ltd Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 53 004 085 616
	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	 AMMABLE LIQUIDS - Category 1 SKIN CORROSION/IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B REPRODUCTIVE TOXICITY - 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	 F224 - Extremely flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. H340 - May cause genetic defects. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child.
Precautionary statements	
General	\mathbf{P} 102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 1/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 2. Hazard(s) identification

Prevention	₽201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P281 - Use personal protective equipment as required.
	P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P241 - Use explosion-proof electrical, ventilating or lighting equipment.
	P242 - Use non-sparking tools.
	P243 - Take action to prevent static discharges.
	P271 - Use only outdoors or in a well-ventilated area.
	P261 - Avoid breathing vapour. P264 - Wash hands thoroughly after handling.
Response	▶308 + P313 - IF exposed or concerned: Get medical attention.
Response	P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep
	comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
	P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water. P362 - Take off contaminated clothing and wash before reuse.
	P302 - P352 - IF ON SKIN: Wash with plenty of soap and water.
	P332 + P313 - If skin irritation occurs: Get medical attention.
Storage	₽405 - Store locked up.
°	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
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	Static accumulating flammable liquid can become electrostatically charged even in

Other	hazards	which	do	not
result	in classi	ficatio	n	

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour may cause flash fire or explosion.

Section 3. Composition and ingredient information

Substance/mixture

Mixture

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	% (w/w)	CAS number
Sasoline	≥99	86290-81-5
Contains:		
Toluene	<20	108-88-3
n-hexane	<5	110-54-3
Polycyclic aromatic hydrocarbons (PAHs)	<1	mixture
Benzene	<1	71-43-2
tert-butyl methyl ether	<1	1634-04-4
2-methylpropan-2-ol	<1	75-65-0
diisopropyl ether	<1	108-20-3

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.

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 2/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 4. First aid measures

Description of necessary first a	id measures
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Inhalation	Finhaled, 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	Contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. 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. Clean shoes thoroughly before reuse. Get medical attention.
Ingestion	Do not induce vomiting. 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. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

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

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. Firefighting measures

Extinguishing media				
Suitable extinguishing media	In case of fire, use water spray.	fog, foam, dry chemical o	or carbon dioxide	extinguisher or
Unsuitable extinguishing media	Do not use water jet.			
Specific hazards arising from the chemical	mixtures with air. Vapour float on water surfaces to or confined areas or trave back. This product is a p electrostatically charged. mixtures can occur. To r and grounding procedure properly-grounded contai	her may burst, with the rist ate fire or explosion hazar is are heavier than air and oremote ignition sources. el a considerable distance boor conductor of electrici If sufficient charge is acc reduce potential for static es. This liquid may accum iners. Static accumulation quantities of water or othe	k of a subsequent rd. Vapours can f l can spread alon Vapours may ac to a source of ig ty and can becom cumulated, ignitio discharge, use pr nulate static electr n may be significa	t explosion. form explosive g the ground or ccumulate in low inition and flash ne n of flammable roper bonding ricity when filling antly increased
Product name Ultimate 98 petr	ol	Product code	0000002791	Page: 3/18
Version 2 Date of issue	5/26/2021	Format Australia	Language	e ENGLISH
		(Australia)		(ENGLISH)

Section 5. Firefighting measures

ustion products may include the following: n oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
tion shall be taken involving any personal risk or without suitable training. otly isolate the scene by removing all persons from the vicinity of the incident if is a fire. Move containers from fire area if this can be done without risk. Use spray to keep fire-exposed containers cool.
ghters should wear positive pressure self-contained breathing apparatus A) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protectiv	ve 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). 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 non-combustible, 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.

Product name Ultimate 98 petrol		Product code	0000002791	Page: 4/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 7. Handling and storage

Precautions for safe handling

Protective measures

po 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.

	obtain special instruction handle until all safety pre- eyes or on skin or clothin enter lungs and cause da mist. Use only with adec ventilation is inadequate. made from a compatible use away from heat, spa proof electrical (ventilatin sparking tools. Take pre- Empty containers retain container. Handling ope include but are not limite filling, creating mists or s gauging, switch loading, to API 2003 (2008), NFP Hazards in Chemical Op that all equipment is prop-	s before use. Avoid expose cautions have been read a ag. Do not swallow. Aspira amage. Never siphon by n quate ventilation. Wear ap Keep in the original conta material, kept tightly close rks, open flame or any oth- og, lighting and material ha cautionary measures again product residue and can be rations that can promote a d to: mixing, filtering, pump prays, tank and container vacuum truck operations. A 77 (2007), and Laurence erations". To reduce poter perly grounded and bonded tts.	ainer or an approved alternative d when not in use. Store and er ignition source. Use explosion- ndling) equipment. Use only non- nst electrostatic discharges. e hazardous. Do not reuse ccumulation of static charges bing at high flow rates, splash filling, tank cleaning, sampling, Restrict flow velocity according e Britton, "Avoiding Static Ignition ntial for static discharge, ensure d and meets appropriate electrical
Advice on general occupational hygiene	handled, stored and proc contaminated clothing ar	essed. Wash thoroughly a	fore entering eating areas. See
Conditions for safe storage, including any incompatibilities	area. Store in original co ventilated area, away fro drink. Store locked up. materials. Keep containe use only in equipment/co that have been opened n	ontainer protected from dire m incompatible materials (Eliminate all ignition source er tightly closed and sealed ontainers designed for use nust be carefully resealed unlabelled containers. Us	a segregated and approved ect sunlight in a dry, cool and well- see Section 10) and food and es. Separate from oxidising d until ready for use. Store and with this product. Containers and kept upright to prevent be appropriate containment to
	cause flammability/explo point (note: flash point in flammability of vapour in regarded as potentially fl discharge and all ignition tanks. Do not enter stora work procedures. Entry contaminated with vapour respiratory protective equ pumped (e.g. during fillin of static discharge. Ensu tank structure. Electrical (i.e. will not produce spat temperature. If product of pressurised fuel pipes, th explosion hazard. Produ	sion hazards even at temp nust not be regarded as a tank headspaces). Tank I ammable and care should sources during filling, ulla age tanks. If entry to vesse into a confined space or po r, mist or fume is extremel upment and a safe system g, discharge or ullaging) a ure equipment used is prop equipment should not be rks). Explosive air/vapour comes into contact with ho ne vapour or mists generat	ly hazardous without the correct of work. When the product is nd when sampling, there is a risk berly earthed or bonded to the used unless it is intrinsically safe mixtures may form at ambient t surfaces, or leaks occur from ed will create a flammability or er or material used to absorb
Product name Ultimate 98 petro	bl	Product code	0000002791 Page: 5/18
Version 2 Date of issue 5	/26/2021	Format Australia	Language ENGLISH

(Australia)

(ENGLISH)

Section 7. Handling and storage

Dispose of safely immediately after use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Sasoline	ACGIH TLV (United States). TWA: 300 ppm 8 hours. Issued/Revised: 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
Toluene	Safe Work Australia (Australia). Absorbed through skin. STEL: 574 mg/m ³ 15 minutes. Issued/ Revised: 8/2005 STEL: 150 ppm 15 minutes. Issued/ Revised: 8/2005 TWA: 191 mg/m ³ 8 hours. Issued/Revised: 8/2005 TWA: 50 ppm 8 hours. Issued/Revised: 8/2005
n-hexane	Safe Work Australia (Australia). TWA: 72 mg/m ³ 8 hours. Issued/Revised: 11/2001 TWA: 20 ppm 8 hours. Issued/Revised: 11/2001
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/m ³ 8 hours. Issued/Revised: 4/2003 TWA: 1 ppm 8 hours. Issued/Revised: 4/2003
tert-butyl methyl ether	Safe Work Australia (Australia). STEL: 275 mg/m ³ 15 minutes. Issued/ Revised: 4/2002 STEL: 75 ppm 15 minutes. Issued/Revised 4/2002 TWA: 92 mg/m ³ 8 hours. Issued/Revised: 4/2002 TWA: 25 ppm 8 hours. Issued/Revised: 4/2002
2-methylpropan-2-ol	Safe Work Australia (Australia). STEL: 455 mg/m ³ 15 minutes. Issued/ Revised: 5/1995 STEL: 150 ppm 15 minutes. Issued/ Revised: 5/1995 TWA: 303 mg/m ³ 8 hours. Issued/Revised: 5/1995 TWA: 100 ppm 8 hours. Issued/Revised: 5/1995
diisopropyl ether	Safe Work Australia (Australia).
roduct name Ultimate 98 petrol	Product code 0000002791 Page: 6/18
Jersion 2 Date of issue 5/26/2021	Format Australia Language ENGLISH
	(Australia) (ENGLISH)

Section 8. Exposure controls and personal protection

	STEL: 1300 mg/m ³ 15 minutes. Issued/ Revised: 5/1995 STEL: 310 ppm 15 minutes. Issued/ Revised: 5/1995 TWA: 1040 mg/m ³ 8 hours. Issued/Revised: 5/1995 TWA: 250 ppm 8 hours. Issued/Revised: 5/1995
--	--

Appropriate engineering controls	ensure exposures only be considered have been suitably appropriate stands maintained. Your supplier of po- selection and appro- organisation for st	d after other forms of control mea y evaluated. Personal protective ards, be suitable for use, be kept ersonal protective equipment sho ropriate standards. For further in andards.	onal protective equipment should asures (e.g. engineering controls) equipment should conform to in good condition and properly ould be consulted for advice on formation contact your national
	airborne concentra The final choice of	entilation or other engineering co ations below their respective occu f protective equipment will depen e that all items of personal prote	upational exposure limits. d upon a risk assessment. It is
Environmental exposure controls	they comply with t cases, fume scrub		
Individual protection measures			
Hygiene measures	eating, smoking a Appropriate techn Wash contaminate	nd using the lavatory and at the e	potentially contaminated clothing re that eyewash stations and
Eye/face protection	Chemical splash g	joggles.	
Skin protection			
Hand protection	Wear chemical re	sistant gloves.	
	mechanical risks (deteriorate over til	oves. Protective gloves must give i.e. abrasion, blade cut and punc me due to physical and chemical ar basis. The frequency of replac use.	ture). Protective gloves will damage. Inspect and replace
	Recommended:	5	Iti-layer laminate inner glove e purpose of the outer glove is to s and mechanical damage. The bons in the product will of time that nitrile gloves will
Skin protection	Personal protectiv being performed a before handling th Cotton or polyeste superficial contam	clothing is good industrial practice e equipment for the body should and the risks involved and should	be selected based on the task be approved by a specialist protection against light to the skin. Overalls should be
Product name Ultimate 98 petrol		Product code	0000002791 Page: 7/18
Version 2 Date of issue 5/2	26/2021	Format Australia	Language ENGLISH

(Australia)

(ENGLISH)

Section 8. Exposure controls and personal protection

	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 wear inherently fire resistant protective clothes			
	gloves.			
	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 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. Work clothing / overalls should be laundered on a regular basis. La contaminated work clothing should only be done by professional cl been told about the hazards of the contamination. Always keep con clothing away from uncontaminated work clothing and uncontamin clothes.			
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.			
Respiratory protection	 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. 			
	Recommended: Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mist 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.			
<u>Refer to standards:</u>	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

<u>Appearance</u>	
Physical state	🗹quid. Clear and Bright.
Colour	☑ght Yellow. to Yellow.
Odour	Petrol
Odour threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	3 0 to 210°C (86 to 410°F)
Flash point	Øosed 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 to 100 kPa (225 to 750 mm Hg)
Vapour density	▶1 [Air = 1]
Relative density	Not available.
Density	7 40 to 760 kg/m³ (0.74 to 0.76 g/cm³) at 15°C

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 8/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 9. Physical and chemical properties

Very slightly soluble in water
Not available.
Not available.
Not available.
Kinematic: <7 mm²/s (<7 cSt) at 40°C

Section 10. Stability and reactivity

Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
Conditions to avoid	Wooid all possible sources of ignition (spark or flame). Avoid excessive heat.
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.
Chemical stability	The product is stable.
Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Basoline	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	-
tert-butyl methyl ether	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	LC50 Inhalation Vapour	Rat	>10000 ppm	4 hours
	LD50 Oral	Rabbit	3559 mg/kg	-
	LD50 Oral	Rat	2743 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	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zasoline	Skin - Irritant	Rabbit	-	-	-
	Eyes - Non-irritating to the	e Rabbit	-	-	-
tert-butyl methyl ether	eyes. Skin - Irritation	Rabbit	-	-	-
	Eyes - Non-irritating to the eyes.	e Rabbit	-	-	-
Skin	Causes skin irritation.				
Mutagenicity					
Product/ingredient name	Test	Experiment		Resul	t

asoline	Equivalent	to OECD	Experiment: In	vitro	Negative	
	476		Subject: Mamm	al - species		
	Equivalent 471	to OECD	unspecified Experiment: In v	vitro	Negative	
		S 870.5395	Experiment: In Subject: Unspe		Negative	
	Equivalent 475	to OECD	Cell: Germ Experiment: In v	vivo	Negative	
			Subject: Unspe	cified		
ert-butyl methyl ether	EU B 13/14	1	Cell: Germ Experiment: In v		Negative	
	OECD 471		Experiment: In v		Negative	
	OECD 476		Experiment: In		Negative	
	Equivalent	to OECD	Subject: Non-m Experiment: In	ammalian species vitro	Negative	
	473				- 3 0	
	Equivalent 486	to OECD	Experiment: In	ammalian species vivo	Negative	
			Subject: Unspe	cified		
	Equivalent OPPTS 87		Cell: Somatic Experiment: In	vivo	Negative	
		0.0000	Subject: Unspe	cified		
	Equivalent OPPTS 79		Cell: Somatic Experiment: In	vivo	Negative	
	0111075	0.0000	Subject: Unspect Cell: Somatic	cified		
Conclusion/Summary Carcinogenicity	May cau	se genetic de	efects.			
Product/ingredient name	Result		Species	Dose	Ехро	sure
asoline	Negative - Unspecifie	Inhalation -	Rat	-	113	weeks
	Negative - Unspecifie	Dermal -	Mouse	-	102	weeks
ert-butyl methyl ether	Positive - In Unspecifie	nhalation -	Rat	-	2 yea	ars
Conclusion/Summary	May cau	se cancer				
Reproductive toxicity						
Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposur
asoline	-	Negative	-	Rat	Inhalation	2 generatio
ert-butyl methyl ether	-	- Negative	Negative	Rat Rat	Inhalation Inhalation	14 days
	-	-	Negative	Rat	Inhalation	generatio 9 days
pecific target organ toxic	ity (single ex	(posure)	<u> </u>			, -
Name			Category	Route of exposure	Target	organs
oduct name Ultimate 98 pe	etrol		Dro	duct code 00000	02791 Þ a	age: 10/18
ersion 2 Date of issue			Format Aus		Language EN	-
	0,20,2021		i onnat Aus		Language LI	- SEION

Section 11. Toxico	0			
Sasoline		Category 3	-	Narcotic effects Narcotic effects
Toluene n-hexane		Category 3 Category 3	-	Narcotic effects
Benzene		Category 3	-	Respiratory tract
Denzene		0,1		irritation
diisopropyl ether		Category 3 Category 3	-	Narcotic effects Narcotic effects
Specific target organ toxicity	(repeated exposure)			
Name		Category	Route of exposure	Target organs
Voluene		Category 2	-	hearing organs
n-hexane		Category 2	inhalation	peripheral nervou system
Benzene		Category 1	-	blood system
Aspiration hazard				
Name			Result	
Sasoline			ASPIRATION HAZ	
Toluene n-hexane			ASPIRATION HAZ	
nformation on likely routes of exposure	Routes of entry anticip	ated: Dermal, In	halation.	
Potential acute health effects				
Eye contact	No known significant e			
Inhalation	Can cause central ner dizziness.	vous system (CN	IS) depression. May	cause drowsiness or
Skin contact	Causes skin irritation.			
Ingestion	Irritating to mouth, thro fatal if liquid is aspirate		Aspiration hazard in	f swallowed harmful o
Symptoms related to the phys	ical, chemical and toxic	cological charac	teristics	
Eye contact	Adverse symptoms ma	ay include the fol	lowing:	
-	pain or irritation	-	-	
	watering			
	redness			
Inhalation	Adverse symptoms ma	ay include the fol	lowing:	
	nausea or vomiting			
	headache droweinese/fatigue			
	drowsiness/fatigue dizziness/vertigo			
	unconsciousness			
Skin contact	Adverse symptoms ma	av include the fol	lowina [.]	
	irritation			
	redness			
	reduced foetal weight			
	increase in foetal deat			
	skeletal malformations			
Ingestion	Adverse symptoms ma	ay include the fol	lowing:	
	nausea or vomiting			
	reduced foetal weight increase in foetal deat	he		

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

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 11/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 11. Toxicological information

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	This product contains n-hexane. Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. Animal studies have also shown that n-hexane overexposure may cause testicular injury. However, animal studies conducted with commercial hexane, containing 53% n-hexane, showed neither peripheral nervous system damage nor testicular injury at inhalation exposures up to 9000 ppm. 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	Suspected of damaging fertility.		

Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
halation (vapours)	1100 mg/l

Other information

Sasoline - 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

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 12/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 11. Toxicological information

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.

Gasoline: Additional toxicity information on components.

Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. Studies in occupationally exposed individuals indicate that toluene exposure has been associated with impaired color vision and decreased performance in some neurobehavioral tests.

Prolonged high level exposure to toluene or xylene has caused some degree of hearing loss in experimental animals.

Inhalation of very high concentrations of gasoline vapors and some of its components can result in cardiac sensitization and irregular heartbeats, leading to potentially fatal changes in heart rhythms. Injection of adrenaline-like agents may enhance this effect. 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.

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 13/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 11. Toxicological information

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.

Section 12. Ecological information

_				
Т	0	Vİ	0	itv/
	v	~		ILY.

Toxicity			
Product/ingredient name	Result	Species	Exposure
Sasoline	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
	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	-
tert-butyl methyl ether	Acute EC50 472 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 200 mg/I Marine water	Crustaceans	96 hours
	Acute LC50 672 mg/l Fresh water	Fish	96 hours
	Acute LC50 574 mg/I 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

Expected to be biodegradable. Non-persistent per IMO criteria

Product/ingredient name	Test	Result	Dose	Inoculum

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 14/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 12. Ecological information

tert-butyl methyl ether	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	-	-
Product/ingredient name	Aquatic half-life	Photolysi	S	Biodegradability
Gasoline	-	-		Inherent

Bioaccumulative potential

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

Product/ingredient name	LogPow	BCF	Potential
Sasoline	2 to 7	-	high
Toluene	2.73	90	low
n-hexane	4	501	high
Benzene	2.13	11	low
tert-butyl methyl ether	1.04	1.5	low
2-methylpropan-2-ol	0.317	-	low
diisopropyl ether	2.4	-	low

<u>Mobility in soil</u>	
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

Product name	Ultimate 98 per	trol
Version 2	Date of issue	5/26/2021

Product code	0000002791	Page: 15/18
Format Australia	Language	ENGLISH
(Australia)		(ENGLISH)

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	3	3
Packing group	11	11	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	Mazchem code 3YE Initial emergency response guide 14	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user Not available.

Transport in bulk according to IMO instruments

Proper shipping name

MARPOL Annex 1 rules apply for bulk shipments by sea. Category: gasoline and spirits

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines 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.

Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name	<u>Schedule</u>
B enzene	Restricted carcinogen [All uses involving benzene as a feedstock containing more than 50% of benzene by volume; Restricted use - Genuine research or analysis; For spray painting if the substance contains more than 1% by volume]

Montreal Protocol

Ingredient name Not listed.	List name	Status		
Stockholm Convention on Persistent Organic Pollutants				
Ingredient name Not listed.	List name	Status		

Rotterdam Convention on Prior Informed Consent (PIC)

Product name	Ultimate 98 petrol	Product code	0000002791	Page: 16/18
Version 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
		(Australia)		(ENGLISH)

Section 15. Regulatory information				
Ingredient name		List name		Status
Not listed.				
nternational lists				1
National inventory				
REACH Status	For the REACH s identified in Section	tatus of this product please on 1.	consult your company	y contact, as
Australia inventory (AICS)	Contact local sup	plier or distributor.		
Canada inventory	Not determined.			
China inventory (IECSC)	Not determined.			
Japan inventory (ENCS)	Not determined.			
Korea inventory (KECI)	At least one com	ponent is not listed.		
Philippines inventory (PICCS)	Not determined.			
Taiwan Chemical Substances Inventory (TCSI)	Not determined.			
United States inventory (TSCA 8b)	Not determined.			

Section 16. Any other relevant information

<u>History</u>	
Date of printing	5/26/2021
Date of issue/Date of revision	5/26/2021
Date of previous issue	11/9/2016
Version	2
Prepared by	Product Stewardship
Key to abbreviations	ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006] STEL = Short term exposure limit SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations TWA = Time weighted average VOC = Volatile Organic Compound SADT = Self-Accelerating Decomposition Temperature Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

Procedure used to derive the classification

Pro	oduct name	Ultimate 98 petrol	Product code	0000002791	Page: 17/18
Ve	ersion 2	Date of issue 5/26/2021	Format Australia	Language	ENGLISH
			(Australia)		(ENGLISH)

Section 16. Any other relevant information

Oection To. Any other relevant information			
Classification	Justification		
AMMABLE LIQUIDS - Category 1 SKIN CORROSION/IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3	On basis of test data Calculation method Expert judgment Expert judgment Calculation method Calculation method		
ASPIRATION HAZARD - Category 1	Calculation method		

V Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.