

Unleaded Petrol

Hazardous Substance Risk Assessment

This risk assessment shall be maintained and be available to workers on the project until the works are completed.

Assessor's Name	Casey Wait	Date of Assessment	09/05/2024
Date of SDS Issue	15/10/2020	Date of SDS Expiry	15/10/2025
Supplier / Manufacturer	Ampol Australia Petroleum Pty Ltd		
Product Use	Fuel		

Hazard Classification

The substance is classified as	
☒ Hazardous Substance	☒ Dangerous Good

Select the applicable health hazards identified on the SDS applicable to the product and hazard statements		
 GHS01 Explosive Explosion, blast, or projection hazard ☐	 GHS02 Flammable Flammable liquids, solids, and gases; including self-heating and self-igniting substances ☒	 GHS03 Oxidising Oxidising liquids, solids, and gases; may cause or intensify fire ☐
 GHS04 Gases under pressure Gases under pressure ☐	 GHS05 Corrosive Corrosive, may cause severe skin and eye damage and may be corrosive to metals ☐	 GHS06 Acute toxicity Fatal or toxic if swallowed, inhaled or in contact with skin ☐
 GHS08 Chronic health hazards Chronic health hazards; including aspiratory and respiratory hazards, carcinogenicity, mutagenicity, and reproductive toxicity ☒	 GHS08 Health hazards Low level toxicity. This includes respiratory, skin, and eye irritation, skin sensitisers and chemicals harmful if swallowed, inhaled or in contact with skin ☒	 GHS09 Environmental Hazardous to aquatic life and the environment ☒

Hazard Statements
Flammable Liquids - Category 2 Aspiration Hazard - Category 1 Skin Corrosion/Irritation - Category 2

Germ Cell Mutagenicity - Category 1B
 Carcinogenicity - Category 1B
 Specific Target Organ Toxicity (Single Exposure) - Category 3 Narcotic
 Effects Chronic Hazard to the Aquatic Environment - Category 2

Exposure Information

Indicate *exposure routes* that represent a risk to health and safety from exposure to this hazardous chemical:

☒ Inhalation	☐ Ingestion	☒ Skin Absorption
☒ Skin Reaction	☒ Eye Contact	

Is the substance emitted or released into the work area where others could be exposed?
 (e.g., sprayed, rolled, applied, fumes, dust etc)

☒ Yes	☐ No
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Are there established *exposure standards* for the hazardous chemical product (i.e. as a whole along with any of its constituent ingredients) identified in the SDS?

☒ Yes	☐ No
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If 'Yes', complete the following table. If 'No', continue to health monitoring section.

(Refer to the Workplace Exposure Standards for Airborne Contaminants: Section 8 of SDS)	Time Weighted Average (TWA)	Benzene 71-43-2 ppm 1 mg/m3 3.2
	Short Term Exposure Limit (STEL)	Petrol (gasoline) ppm - mg/m3 900
Frequency of exposure	☐ Continuous all day	☒ Intermittent daily
	☐ Several times per week	☐ Once per week
	☒ Several times per month	☐ Once per month
Duration of exposure	☐ Greater than 8 hours per day	☐ 8 hours per day
	☐ 2 to 7 hours per day	☐ 1 to 2 hours per day
	☐ Less than 1 hour per day	☐ Less than 15 minutes per day

Is air monitoring required for the substance?

☐ Yes	☒ No
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Is health monitoring required for the substance?

☐ Yes	☒ No
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Control Measures

The following section indicates the control measures necessary to minimise the risk to health and safety posed from exposure to this hazardous chemical.

Does the substance warrant *elimination* from use? (i.e. remove hazardous substance)

☐ Yes

☒ No

Does the substance warrant *substitution* with another product?

☐ Yes

☒ No

Do other workers need to be *isolated* from the area during use?

☐ Yes

☒ No

Does the substance require *engineering controls*? (eg ventilation systems, filter systems etc)

☐ Yes

☒ No

If 'Yes', provide details of control measures:

Indicate the PPE required for handling this hazardous chemical

☐



☒



☐



☐



☒



☒



☐



☒



☐



☒



☐ Other (please specify):

How will the *effectiveness of control measures* be reviewed and revised?

Provide details: Periodic conversations with users about products hazards, open air use and PPE requirements for safe handling

Is a spill kit required to control a spill?

☒ Yes

☒ No

Storage Requirements for Dangerous Goods

Assess the storage requirements for dangerous goods according to the matrix below and implement accordingly.

	Dangerous Goods Class GHS Hazard Class											
☐	Class 2.1 Flammable Gas Flammable Aerosols		Compatible	Minimum 3m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Isolate	Minimum 3m Separation	Minimum 3m Separation
☐	Class 2.2 Gases under Pressure		Minimum 3m Separation	Compatible	Minimum 3m Separation	Refer to SDS	Minimum 5m Separation	Refer to SDS	Refer to SDS	Minimum 5m Separation	Refer to SDS	Minimum 3m Separation
☐	Class 3 Flammable Liquids		Minimum 5m Separation	Minimum 3m Separation	Compatible	Minimum 3m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Isolate	Minimum 3m Separation	Minimum 3m Separation
☐	Class 4.1 Flammable Solids		Minimum 5m Separation	Refer to SDS	Minimum 3m Separation	Compatible	Minimum 3m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 3m Separation	Refer to SDS
☐	Class 4.2 Pyrophoric solids, liquids and gases. Self-heating substances and mixtures		Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 3m Separation	Compatible	Minimum 3m Separation	Minimum 5m Separation	Isolate	Minimum 3m Separation	Minimum 3m Separation
☐	Class 4.3 Substances and mixtures which, in contact with water, emit flammable gases		Minimum 5m Separation	Refer to SDS	Minimum 5m Separation	Minimum 5m Separation	Minimum 3m Separation	Compatible	Minimum 3m Separation	Minimum 5m Separation	Refer to SDS	Refer to SDS
☐	Class 5.1 Oxidising solids, Liquids and gases		Minimum 5m Separation	Refer to SDS	Minimum 5m Separation	Minimum 5m Separation	Minimum 5m Separation	Minimum 3m Separation	Compatible	Minimum 5m Separation	Minimum 3m Separation	Minimum 3m Separation
☐	Class 5.2 Self-reactive substances and mixtures Organic peroxides		Isolate	Minimum 5m Separation	Isolate	Minimum 5m Separation	Isolate	Minimum 5m Separation	Minimum 5m Separation	Compatible	Minimum 3m Separation	Minimum 3m Separation
☐	Class 6 All health hazards		Minimum 3m Separation	Refer to SDS	Minimum 3m Separation	Minimum 3m Separation	Minimum 3m Separation	Refer to SDS	Minimum 3m Separation	Minimum 3m Separation	Compatible	Refer to SDS
☐	Class 8 Corrosive to metals Skin Corrosion Cat 1 Serious eye damage Cat 1		Minimum 3m Separation	Minimum 3m Separation	Minimum 3m Separation	Refer to SDS	Minimum 3m Separation	Refer to SDS	Minimum 3m Separation	Minimum 3m Separation	Refer to SDS	Refer to SDS

Prohibited and Restricted Hazardous Chemicals

Does the substance contain any of the prohibited or restricted compounds below?

☐ Yes

☒ No

Prohibited Carcinogens

- 2-Acetylaminofluorene 53-96-3
- Aflatoxins
- 4-Aminodiphenyl 92-67-1
- Benzidine 92-87-5 and its salts (including benzidine dihydrochloride 531-85-1)
- Bis (Chloromethyl) ether 542-88-1
- Chloromethyl methyl ether 107-30-2
- 4-Dimethylaminoazobenzene 60-11-7 (dimethyl Yellow)
- 2-Naphthylamine 91-59-8 and its salts
- 4-Nitrodiphenyl 92-93-3

Restricted Carcinogens

- Acrylonitrile 107-13-1
- Benzene 71-43-2
- Cyclophosphamide
- 3,3' Dichlorobenzidine 91-94-1 and its salts (including dihydrochloride 612-83-9)
- Diethyl sulfate 64-67-5
- Dimethyl sulfate 77-78-1
- Ethylene dibromide 106-93-4
- 4,4' Methylene bis (2-chloroaniline) 101-14-4
- 3 – Propiolactone 57-57-8
- o-Toluidine 95-53-4 and o-Toluidine hydrochloride 636-21-5
- Vinyl chloride monomer 75-01-4

Restricted Hazardous Chemical

- Antimony and its compounds
- Arsenic and its compounds
- Benzene (benzol) if the substance contains more than 1% by volume
- Beryllium and its compounds
- Cadmium and its compounds
- Carbon disulphide (carbon bisulphide)
- Chromate
- Chromium and its compounds
- Cobalt and its compounds
- Free silica (crystalline silicon dioxide)
- Lead and compounds
- Lead carbonate
- Methanol (methyl alcohol), if the substance contains more than 1% by volume
- Nickel and its compounds
- Nitrates
- Nitrites
- Radioactive substance of any kind where level of radiation exceeds 1 Bq/g
- Tetrachloroethane
- Tetrachloromethane (carbon tetrachloride)
- Tin and its compounds
- Tributyl tin

If 'Yes', refer to all additional controls required by the SDS

If 'Yes', provide details:

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