SAFETY DATA SHEET
Avgas 100LL (>0.1% Benzene)

Section 1. Identification

GHS product identifier Avgas 100LL (>0.1% Benzene)
Product code SAV2103A.
SDS no. SAV2103A

Relevant identified uses of the substance or mixture and uses advised against:
Use of the substance/mixture: Use only as a motor fuel for aviation. 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

Tel: +61 (03) 9268 4111
Fax: +61 (03) 9268 3321

EMERGENCY TELEPHONE NUMBER
1800 638 556 (24 hour)

OTHER PRODUCT INFORMATION
Technical Helpline Number: 1300 139 700

Section 2. Hazard(s) identification

Classification of the substance or mixture:
FLAMMABLE LIQUIDS - Category 2
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
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
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1

GHS label elements
Hazard pictograms

Signal word DANGER
Hazard statements:
H225 - Highly flammable liquid and vapour.
H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
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.
H335 - May cause drowsiness or dizziness.

Product name Avgas 100LL (>0.1% Benzene)  Product code SAV2103A.  Page: 1/13
Version 1  Date of issue 28/01/2016  Format Australia  Language ENGLISH
(Australia) (ENGLISH)
Section 2. Hazard(s) identification

Precautionary statements

H373 - May cause damage to organs through prolonged or repeated exposure.

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.

Prevention
P201 - 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 clothing. Wear eye or face protection. Wear protective clothing.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P233 - Keep container tightly closed.
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe vapour.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.

Response
P314 - Get medical attention if you feel unwell.
P308 + P313 - If exposed or concerned: Get medical attention.
P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induc vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P302 + P352 + P312 + P352-2 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing.
P332 + P313 - If skin irritation occurs: Get medical attention.

Storage
P405 - Store locked up.
P403 - Store in a well-ventilated place.
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 result in classification
Air contaminants may be formed during use of the product.
Contains n-hexane which may cause peripheral nerve damage.

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 also contain small quantities of proprietary performance additives. Contains lead. May be dyed.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
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<tbody>
<tr>
<td>Gasoline</td>
<td>≥90</td>
<td>86290-31-5</td>
</tr>
<tr>
<td>Tetraethyl lead (Lead alkyls)</td>
<td>≥0.05 - &lt;0.125</td>
<td>78-00-2</td>
</tr>
</tbody>
</table>

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.

<table>
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<tr>
<th>Product name</th>
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<td>Version 1</td>
<td>Format Australia</td>
<td>Language</td>
<td>(Canada)</td>
</tr>
<tr>
<td>Page: 2/13</td>
<td></td>
<td></td>
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</tr>
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</table>
Section 4. First-aid measures

Description of necessary first aid 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
If inhaled, remove to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. 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.

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.

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
Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Vapours can form explosive mixtures with air. Vapours are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Liquid will float and may reignite on surface of water.
Section 5. Fire-fighting measures

Hazardous thermal decomposition products
Combustion products may include the following:
- carbon dioxide
- carbon monoxide

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.

Hazchem code
3YE

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 split 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 spill 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 recovery, 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 split 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.

<table>
<thead>
<tr>
<th>Product name</th>
<th>Avges 100ML (&gt;0.1% Benzene)</th>
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</tbody>
</table>
Section 7. Handling and storage

Precautions for safe handling

Protective measures
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Take precautionary measures against electrostatic discharges. Avoid contact of spill 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. Do not breathe vapour or mist. 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

Occupational exposure limits

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Page: 5/13
## Section 8. Exposure controls and personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
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<tr>
<td>Gasoline</td>
<td>ACGIH TLV (United States).</td>
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<tr>
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<td>TWA: 300 ppm 8 hours. Issued/Revised: 5/1996</td>
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<td></td>
<td>TWA: 890 mg/m³ 8 hours. Issued/Revised: 5/1996</td>
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<td>STEL: 500 ppm 15 minutes. Issued/Revised: 5/1996</td>
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<tr>
<td></td>
<td>STEL: 1480 mg/m³ 15 minutes Issued/Revised: 5/1996</td>
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<tr>
<td>toluene</td>
<td>Safe Work Australia (Australia). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>STEL: 574 mg/m³ 15 minutes. Issued/Revised: 8/2005</td>
</tr>
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<td>STEL: 150 ppm 15 minutes. Issued/Revised: 8/2005</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>Safe Work Australia (Australia).</td>
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<tr>
<td></td>
<td>STEL: 543 mg/m³ 15 minutes. Issued/Revised: 5/1995</td>
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<tr>
<td></td>
<td>STEL: 125 ppm 15 minutes. Issued/Revised: 5/1995</td>
</tr>
<tr>
<td>xylene</td>
<td>Safe Work Australia (Australia).</td>
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<tr>
<td></td>
<td>STEL: 655 mg/m³ 15 minutes. Issued/Revised: 5/1995</td>
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<td></td>
<td>STEL: 150 ppm 15 minutes. Issued/Revised: 5/1995</td>
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<tr>
<td>n-hexane</td>
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<td>TWA: 350 mg/m³ 8 hours. Issued/Revised: 5/1995</td>
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<td>TWA: 80 ppm 8 hours. Issued/Revised: 5/1995</td>
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<td>Benzene</td>
<td>Safe Work Australia (Australia).</td>
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<td></td>
<td>TWA: 72 mg/m³ 8 hours. Issued/Revised: 11/2001</td>
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<td>TWA: 20 ppm 8 hours. Issued/Revised: 11/2001</td>
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<td>Tetraethyl lead (Lead alkyls)</td>
<td>Safe Work Australia (Australia). Absorbed through skin.</td>
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<td>TWA: 0.1 mg/m³, (as Pb) 8 hours. Issued/Revised: 5/1995</td>
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<th>Page: 6/13</th>
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</tbody>
</table>
Section 8. Exposure controls and personal protection

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 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
Chemical splash goggles.

Skin protection

Hand protection
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.

Skin protection
Use of protective clothing is good industrial practice.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Wear suitable protective clothing.

Footwear highly resistant to chemicals.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti-static.

When there is a risk of ignition wear inherently fire resistant protective clothes and gloves.

Work clothing / overalls should be laundered on a regular basis. Laundering of contaminated work clothing should only be done by professional cleaners who have been told about the hazards of the contamination. Always keep contaminated work clothing away from uncontaminated work clothing and uncontaminated personal clothes.

When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Section 8. Exposure controls and personal protection

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
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: If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist.

Refer to standards:
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
Liquid.

Colour
Blue.

Odour
Petrol

Odour threshold
Not available.

pH
Not available.

Melting point
Not available.

Boiling point
40 to 170°C (104 to 338°F)

Flash point
Closed cup: < -40°C (< -40°F)

Evaporation rate
Not available.

Flammability (solid, gas; lower and upper explosive (flammable) limits
Not applicable. Based on - Physical state

Vapour pressure
38 to 49 kPa (285.02 to 367.53 mm Hg) [37.8°C (100°F)]

Vapour density
3 to 4 [Air = 1]

Relative density
710 kg/m³ (0.71 g/cm³) at 15°C

Solubility
Very slightly soluble in water

Partition coefficient: n-octanol/water
Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Kinematic: < 7 mm²/s (< 7 cSt) at 40°C

Section 10. Stability and reactivity

Reactivity
No 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 reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid
Avoid all possible sources of ignition (spark or flame). Avoid excessive heat.

Product name: Avgas 103LL (> = 0.1% Benzene)  
Version 1  Date of issue 28/01/2016  
Product code: SAV2103A.  Page: 8/13  
Format: Australia  Language: ENGLISH
Section 10. Stability and reactivity

Incompatible materials: Reactive or incompatible with the following materials: oxidising materials.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target: organs</th>
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</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcofic effects</td>
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Specific target organ toxicity (repeated exposure)

<table>
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<td>Tetrathyl lead (Lead alkyls)</td>
<td>Category 1</td>
<td>Not determined</td>
<td>blood system, central nervous system (CNS), kidneys and reproductive organs</td>
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Aspiration hazard

<table>
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<tr>
<th>Name</th>
<th>Result</th>
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<tbody>
<tr>
<td>Gasoline</td>
<td>ASPIRATION HAZARD - Category 1</td>
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</table>

Information on the likely routes of exposure: Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.
Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact: Harmful in contact with skin. Causes skin irritation.
Ingestion: Harmful if swallowed. 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

Product name: Avgas 100LL (>=0.1% Benzene)
Product code: SAV2103A
Page: 9/13
Version: 1
Date of issue: 28/01/2016
Format: Australia
Language: ENGLISH
(Australia)
Section 11. Toxicological information

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

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

General
May cause damage to organs through prolonged or repeated exposure. 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
No known significant effects or critical hazards.

Other information
Lead is a cumulative poison. It can cause anaemia, central nervous system effects, gastrointestinal symptoms and kidney damage.

Section 12. Ecological information

Persistence and degradability
Expected to be biodegradable. Non-persistent per IMO criteria.

Product name: Aegas 100LL (>0.1% Benzene)

Aquatic half-life
- Photolysis
- Biodegradability
Inherent

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

Mobility in soil

Soil/water partition coefficient (Koc)
Not available.

Mobility
Spillages may penetrate the soil causing groundwater 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

<table>
<thead>
<tr>
<th>UN number</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
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<tr>
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<tr>
<td>UN proper shipping name</td>
<td>GASOLINE or MOTOR SPIRIT</td>
<td>GASOLINE or MOTOR SPIRIT. Marine pollutant</td>
<td>GASOLINE or MOTOR SPIRIT</td>
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<td>Transport hazard class(es)</td>
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<td>3</td>
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<tr>
<td>Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
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<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Hazchem code 3YE</td>
<td>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</td>
<td>The environmentally hazardous substance mark may appear if required by other transportation regulations.</td>
</tr>
<tr>
<td>Initial emergency response guide</td>
<td>14</td>
<td>Emergency schedules, (EmS) F-E, S-E</td>
<td></td>
</tr>
</tbody>
</table>

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons
6

Product name: Avgas 100LL (>=0.1% Benzene)
Version 1
Date of issue: 28/01/2016

Product code: SAV2103A
Format: Australia
Language: ENGLISH
Page: 11/13
Section 15. Regulatory information

Consumer products - This material is a scheduled poison and must be stored, maintained and used in accordance with the relevant regulations.

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 NOSHIC National Code of Practice for labelling of workplace substances.

Model Work Health and Safety Regulations - Scheduled Substances

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>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]</td>
</tr>
<tr>
<td>Tetraethyl lead (Lead alloys)</td>
<td>Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 0.1% as lead or which would expose the operator to levels in excess of those set in the regulations covering lead]</td>
</tr>
</tbody>
</table>

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) Contact local supplier or distributor.
Canada Inventory Contact supplier for regulatory information.
China inventory (IECSC) At least one component is not listed.
Japan inventory (ENCS) Not determined.
Korea inventory (KECI) Not determined.
Philippines inventory (PICCS) Not determined.
Taiwan inventory (CSNN) Not determined.
United States inventory (TSCA 86) All components are listed or exempted.

Section 16. Any other relevant information

History
Date of printing 28/01/2016
Date of issue/Date of revision 28/01/2016
Date of previous issue No previous validation
Version 1
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 = 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)
## Section 16. Any other relevant information

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, 74669-22-0, 90668-74-2

### Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
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</thead>
<tbody>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Acute Tox. 4, H312</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Acute Tox. 4, H332</td>
<td>On basis of test data</td>
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<tr>
<td>Skin Irrit. 2, H315</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Muta. 1B, H340</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>Carc. 1B, H350</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Rep. 2, H361 (Unborn child)</td>
<td>Expert judgment</td>
</tr>
<tr>
<td>STOT SE 3, H336</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Asp. Tox. 1, H304</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

*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.

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### Product data

<table>
<thead>
<tr>
<th>Product name</th>
<th>Avgas 100LL (&gt;=0.1% Benzene)</th>
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<tbody>
<tr>
<td>Product code</td>
<td>SAV2103A</td>
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<tr>
<td>Version</td>
<td>1</td>
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Page: 13/13