

# SAFETY DATA SHEET

According to the Hazardous Products Regulations  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

### SECTION 1. IDENTIFICATION

Product name : AVGAS 100LL  
Product code : 002D0717

#### Manufacturer or supplier's details

Manufacturer/Supplier : **Shell Trading Canada**  
400 - 4th Avenue S.W.  
Calgary-Alberta T2P 0J4  
Canada

Telephone : (+1) 800-661-1600  
Telefax :

Emergency telephone number : CHEMTREC (24 hr) (+1) 703-527-3887 or (+1) 800-424-9300 (US)  
; CANUTEC (24 hr): (+1) 613-996-6666; Toll Free: 1-888-CANUTEC (226-8832)

#### Recommended use of the chemical and restrictions on use

Recommended use : Aviation Fuel  
Low lead content aviation gasoline fuel for piston engined aircraft

Restrictions on use :  
This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.  
This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser.

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 1  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Dermal) : Category 4

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version  
5.1

Revision Date:  
2018-02-19

SDS Number:  
800001008388

Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

---

|  |  |
|--|--|
| Acute toxicity (Inhalation)                                      | : Category 4                                 |
| Skin irritation  | : Category 2                                 |
| Aspiration hazard  | : Category 1                                 |
| Germ cell mutagenicity   | : Category 1B                                |
| Carcinogenicity  | : Category 1B                                |
| Reproductive toxicity  | : Category 1A                                |
| Specific target organ toxicity<br>- single exposure (Inhalation) | : Category 3 (Narcotic effects)              |
| Specific target organ toxicity<br>- repeated exposure            | : Category 2 (Liver, Central nervous system) |
| Chronic aquatic toxicity   | : Category 2                                 |

### GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: PHYSICAL HAZARDS:  
H224 Extremely flammable liquid and vapour.  
HEALTH HAZARDS:  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs (Blood forming organs,  
Central nervous system) through prolonged or repeated expo-  
sure.  
ENVIRONMENTAL HAZARDS:  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P201 Obtain special instructions before use.

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version 5.1      Revision Date: 2018-02-19      SDS Number: 800001008388      Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/  
face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON  
CENTER/doctor.

**Storage:**

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

**Disposal:**

P501 Dispose of contents and container to appropriate waste  
site or reclaimer in accordance with local and national regula-  
tions.

**Other hazards which do not result in classification**

Liquid evaporates quickly and can ignite leading to a flash fire, or an explosion in a confined  
space.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic  
charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-  
vapour mixtures can occur.

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.

This product contains tetraethyl lead which is known to accumulate in the human body. There are  
indications from human epidemiological studies that exposure to tetraethyl lead may cause de-  
velopmental and neurobehavioral effects in the unborn child.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name : AVGAS 100LL

Chemical nature : Complex mixture of hydrocarbons consisting of paraffins, cy-  
cloparaffins, aromatic and olefinic hydrocarbons with carbon  
numbers predominantly in the C4 to C12 range.  
Contains lead alkyl anti-knock additives. Maximum lead con-  
centration: 0.56 g/l.  
Maximum tetraethyl lead content is 0.125% w/w.  
May also contain several additives at <0.1% v/v each.  
This product is dyed for grade identification.

**Hazardous components**

| Chemical name                       | CAS-No.    | Concentration (% w/w) |
|-------------------------------------|------------|-----------------------|
| Gasoline, low boiling point naphtha | 86290-81-5 | 100                   |
| Tetraethyl lead                     | 78-00-2    | 0.1                   |

**Further information**

Contains:

| Chemical name | Identification number | Concentration [%] |
|---------------|-----------------------|-------------------|
| toluene       | 108-88-3, 203-625-9   | 5 - 25            |

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version 5.1      Revision Date: 2018-02-19      SDS Number: 800001008388      Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

---

|                               |                       |         |
|-------------------------------|-----------------------|---------|
| Xylene, mixed isomers         | 1330-20-7, 215-535-7  | 5 - 25  |
| cyclohexane                   | 110-82-7, 203-806-2   | 1 - 5   |
| Ethylbenzene                  | 100-41-4, 202-849-4   | 1 - 5   |
| n-Hexane                      | 110-54-3, 203-777-6   | 0 - 5   |
| Trimethylbenzene, all isomers | 25551-13-7, 247-099-9 | 0 - 5   |
| cumene                        | 98-82-8, 202-704-5    | 0 - 0.5 |
| Naphthalene                   | 91-20-3, 202-049-5    | 0 - 0.5 |
| benzene                       | 71-43-2, 200-753-7    | 0.1 - 5 |

---

### SECTION 4. FIRST-AID MEASURES

- If inhaled : Call emergency number for your location / facility.  
Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to the nearest medical facility.
- In case of skin contact : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.  
When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.  
Obtain medical attention even in the absence of apparent wounds.
- In case of eye contact : Flush eye with copious quantities of water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If persistent irritation occurs, obtain medical attention.
- If swallowed : Call emergency number for your location / facility.  
If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.
- Most important symptoms and effects, both acute and delayed : If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

- 
- |                            |   |
|----------------------------|---|
| Protection of first-aiders | : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.   |
| Notes to physician         | : Treat symptomatically.<br>The concentration of lead alkyl compounds present is not significant in the context of treating acute poisoning unless the person has been laying in a pool of the product for some time. |
- 

### SECTION 5. FIRE-FIGHTING MEASURES

- |   |  |
|---|--|
| Suitable extinguishing media                  | : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.   |
| Unsuitable extinguishing media                | : Do not use direct water jets on the burning product as they could cause a steam explosion and spread of the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.  |
| Specific hazards during fire-fighting         | : Clear fire area of all non-emergency personnel.<br>Hazardous combustion products may include:<br>A complex mixture of airborne solid and liquid particulates and gases (smoke).<br>Carbon monoxide may be evolved if incomplete combustion occurs.<br>Unidentified organic and inorganic compounds.<br>The vapour is heavier than air, spreads along the ground and distant ignition is possible.<br>Will float and can be reignited on surface water. |
| Further information                           | : Keep adjacent containers cool by spraying with water.<br>If possible remove containers from the danger zone.<br>If the fire cannot be extinguished the only course of action is to evacuate immediately.<br>Prevent fire extinguishing water from contaminating surface water or the ground water system.<br>Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways.                    |
| Special protective equipment for firefighters | : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).   |
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |                               |   |
|-------------------------------|---|
| Personal precautions, protec- | : Vapour can travel for considerable distances both above and |
|-------------------------------|---|

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

tive equipment and emergency procedures

below the ground surface. Underground services (drains, pipelines, cable ducts) can provide preferential flow paths. Do not breathe fumes, vapour. Take measures to minimise the effects on groundwater. Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways. Avoid contact with skin, eyes and clothing. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Evacuate all personnel. Attempt to disperse the vapour or to direct its flow to a safe location, for example by using fog sprays. Vapour can travel for considerable distances both above and below the ground surface. Underground services (drains, pipelines, cable ducts) can provide preferential flow paths.

Environmental precautions

: Take measures to minimise the effects on groundwater. Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Methods and materials for containment and cleaning up

: Take precautionary measures against static discharges. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Avoid contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel. Ventilate contaminated area thoroughly. If contamination of site occurs remediation may require specialist advice. Take precautionary measures against static discharges. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Observe all relevant local and international regulations.

Additional advice

: For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. For guidance on disposal of spilled material see Chapter 13 of

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

this Safety Data Sheet.  
Local authorities should be advised if significant spillages cannot be contained.  
Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex 1 Regulation 26.

---

### SECTION 7. HANDLING AND STORAGE

- General Precautions : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.  
Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.  
Air-dry contaminated clothing in a well-ventilated area before laundering.  
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.  
Prevent spillages.  
Turn off all battery operated portable electronic devices (examples include: cellular phones, pagers and CD players) before operating gasoline pump.  
Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse.  
For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier.  
Do not use as a cleaning solvent or other non-motor fuel uses.
- Maintenance and Fuelling Activities - Avoid inhalation of vapours and contact with skin.
- Advice on safe handling : Ensure that all local regulations regarding handling and storage facilities are followed.  
When using do not eat or drink.  
Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.  
Never siphon by mouth.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.  
Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.  
Bulk storage tanks should be diked (bunded).  
Keep container tightly closed and in a cool, well-ventilated place.  
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.  
Avoid exposure.

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

The following activities have been associated with high levels of exposure to gasoline vapours: Top-loading of tankers, open ship loading by deck crew, drum filling/emptying and laboratory testing (particularly sample bottle washing).

In the interests of air safety, aviation fuels are subject to strict quality requirements and product integrity is of paramount importance. For one source of information on international standards for the quality assurance of aviation fuels, see [www.jjgonline.com](http://www.jjgonline.com).

Avoidance of contact : Strong oxidising agents.

Product Transfer : Wait 2 minutes after tank filling (for tanks such as those on road tanker vehicles) before opening hatches or manholes. Wait 30 minutes after tank filling ( for large storage tanks) before opening hatches or manholes. During aircraft re-fueling and all other operations extreme care must be taken to avoid any source of ignition from igniting vapour.

Avoid splash filling Keep containers closed when not in use. Do not use compressed air for filling discharge or handling. Contamination resulting from product transfer may give rise to light hydrocarbon vapour in the headspace of tanks that have previously contained gasoline. This vapour may explode if there is a source of ignition. Partly filled containers present a greater hazard than those that are full, therefore handling, transfer and sampling activities need special care.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.

### Storage

Other data : Drum and small container storage:  
Keep containers closed when not in use.  
Drums should be stacked to a maximum of 3 high.



# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

Use properly labeled and closable containers.  
Packaged product must be kept tightly closed and stored in a diked (bunded) well-ventilated area, away from, ignition sources and other sources of heat.  
Take suitable precautions when opening sealed containers, as pressure can build up during storage.  
Tank storage:  
Tanks must be specifically designed for use with this product.  
Bulk storage tanks should be diked (bunded).  
Locate tanks away from heat and other sources of ignition.  
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.  
Electrostatic charges will be generated during pumping.  
Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.  
The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.  
Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel., Aluminium may also be used for applications where it does not present an unnecessary fire hazard., Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FKM), which have been specifically tested for compatibility with this product., For container linings, use amine-adduct cured epoxy paint., For seals and gaskets use: graphite, PTFE, Viton A, Viton B.  
Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene., However, some may be suitable for glove materials.

Container Advice : Do not cut, drill, grind, weld or perform similar operations on or near containers. Containers, even those that have been emptied, can contain explosive vapours. Gasoline containers must not be used for storage of other products.

Specific use(s) : Not applicable

See additional references that provide safe handling practices for liquids that are determined to be static accumulators:  
American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or  
National Fire Protection Agency 77 (Recommended Practices

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version  
5.1

Revision Date:  
2018-02-19

SDS Number:  
800001008388

Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                    | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis  |
|-------------------------------|------------|----------------------------------|--|--|
| n-Hexane                      | 110-54-3   | TWA                              | 500 ppm<br>1,800 mg/m <sup>3</sup>             | OSHA Z-1   |
|                               |            | TWA                              | 50 ppm   | ACGIH  |
| toluene                       | 108-88-3   | TWA                              | 20 ppm   | ACGIH  |
|                               |            | TWA                              | 200 ppm  | OSHA Z-2   |
|                               |            | CEIL                             | 300 ppm  | OSHA Z-2   |
|                               |            | Peak                             | 500 ppm<br>(10 minutes)                        | OSHA Z-2   |
| cyclohexane                   | 110-82-7   | TWA                              | 100 ppm  | ACGIH  |
|                               |            | TWA                              | 300 ppm<br>1,050 mg/m <sup>3</sup>             | OSHA Z-1   |
|                               |            | TWA                              | 300 ppm<br>1,050 mg/m <sup>3</sup>             | NIOSH REL  |
| Xylene                        | 1330-20-7  | TWA                              | 100 ppm<br>435 mg/m <sup>3</sup>               | OSHA Z-1   |
|                               |            | TWA                              | 100 ppm  | ACGIH  |
|                               |            | STEL                             | 150 ppm  | ACGIH  |
|                               |            | STEL                             | 150 ppm<br>655 mg/m <sup>3</sup>               | OSHA P0  |
|                               |            | TWA                              | 100 ppm<br>435 mg/m <sup>3</sup>               | OSHA P0  |
| Ethylbenzene                  | 100-41-4   | TWA                              | 20 ppm   | ACGIH  |
|                               |            | TWA                              | 100 ppm<br>435 mg/m <sup>3</sup>               | NIOSH REL  |
|                               |            | ST                               | 125 ppm<br>545 mg/m <sup>3</sup>               | NIOSH REL  |
|                               |            | TWA                              | 100 ppm<br>435 mg/m <sup>3</sup>               | OSHA Z-1   |
| Trimethylbenzene, all isomers | 25551-13-7 | TWA                              | 25 ppm   | ACGIH  |
| benzene                       | 71-43-2    | TWA                              | 0.5 ppm<br>1.6 mg/m <sup>3</sup>               | Shell Internal Standard (SIS) for 8-12 hour TWA. |
|                               |            | STEL                             | 2.5 ppm<br>8 mg/m <sup>3</sup>                 | Shell Internal Standard (SIS) for 15 min (STEL)  |

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version  
5.1

Revision Date:  
2018-02-19

SDS Number:  
800001008388

Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

|  |            |      |                                    |           |
|--|------------|------|------------------------------------|-----------|
|  |            | TWA  | 0.5 ppm                            | ACGIH     |
|  |            | STEL | 2.5 ppm                            | ACGIH     |
|  |            | PEL  | 1 ppm                              | OSHA CARC |
|  |            | STEL | 5 ppm                              | OSHA CARC |
|  |            | TWA  | 10 ppm                             | OSHA Z-2  |
|  |            | CEIL | 25 ppm                             | OSHA Z-2  |
|  |            | Peak | 50 ppm<br>(10 minutes)             | OSHA Z-2  |
| Naphthalene                            | 91-20-3    | TWA  | 10 ppm<br>50 mg/m <sup>3</sup>     | NIOSH REL |
|  |            | ST   | 15 ppm<br>75 mg/m <sup>3</sup>     | NIOSH REL |
|  |            | TWA  | 10 ppm<br>50 mg/m <sup>3</sup>     | OSHA Z-1  |
|  |            | TWA  | 10 ppm                             | ACGIH     |
| cumene                                 | 98-82-8    | TWA  | 50 ppm<br>245 mg/m <sup>3</sup>    | OSHA Z-1  |
|  |            | TWA  | 50 ppm                             | ACGIH     |
| Gasoline, low boiling point<br>naphtha | 86290-81-5 | TWA  | 300 ppm                            | ACGIH     |
|  |            | STEL | 500 ppm                            | ACGIH     |
|  |            | TWA  | 500 ppm<br>2,000 mg/m <sup>3</sup> | OSHA Z-1  |
| Tetraethyl lead                        | 78-00-2    | TWA  | 0.1 mg/m <sup>3</sup><br>(Lead)    | ACGIH     |
|  |            | TWA  | 0.075 mg/m <sup>3</sup><br>(Lead)  | OSHA Z-1  |

### Biological occupational exposure limits

| Components | CAS-No.  | Control parameters        | Biological specimen | Sam-pling time   | Permissible concentra-tion | Basis        |
|------------|----------|---------------------------|---------------------|--|----------------------------|--------------|
| benzene    | 71-43-2  | S-Phenylmer-capturic acid | Urine               | End of shift (As soon as possible after exposure ceases) | 25 µg/g creatinine         | ACGIH<br>BEI |
|            |          | t,t-Muconic acid          | Urine               | End of shift (As soon as possible after exposure ceases) | 500 µg/g creatinine        | ACGIH<br>BEI |
| n-Hexane   | 110-54-3 | 2,5-Hexanedi-one          | Urine               | End of shift at end of work-                             | 0.4 mg/l                   | ACGIH<br>BEI |

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version  
5.1

Revision Date:  
2018-02-19

SDS Number:  
800001008388

Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

|              |           |  |          |  |                         |              |
|--------------|-----------|--|----------|--|-------------------------|--------------|
| toluene      | 108-88-3  | Toluene  | In blood | week<br>Prior to last shift of work-week                 | 0.02 mg/l               | ACGIH<br>BEI |
|              |           | Toluene  | Urine    | End of shift (As soon as possible after exposure ceases) | 0.03 mg/l               | ACGIH<br>BEI |
|              |           | o-Cresol                                       | Urine    | End of shift (As soon as possible after exposure ceases) | 0.3 mg/g<br>Creatinine  | ACGIH<br>BEI |
| Ethylbenzene | 100-41-4  | Sum of mandelic acid and phenyl glyoxylic acid | Urine    | End of shift (As soon as possible after exposure ceases) | 0.15 g/g<br>creatinine  | ACGIH<br>BEI |
| Xylene       | 1330-20-7 | Methylhippuric acids                           | Urine    | End of shift (As soon as possible after exposure ceases) | 1.5 g/g cre-<br>atinine | ACGIH<br>BEI |

### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany  
<http://www.dguv.de/inhalt/index.jsp>

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

Version  
5.1

Revision Date:  
2018-02-19

SDS Number:  
800001008388

Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

---

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

**Engineering measures** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:  
Use sealed systems as far as possible.  
Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.  
Firewater monitors and deluge systems are recommended.  
Local exhaust ventilation is recommended.  
Eye washes and showers for emergency use.

### General Information:

Consider technical advances and process upgrades (including automation) for the elimination of releases. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Drain down systems and clear transfer lines prior to breaking containment. Clean/flush equipment, where possible, prior to maintenance. Where there is potential for exposure: restrict access to authorised persons; provide specific activity training to operators to minimise exposures; wear suitable gloves and coveralls to prevent skin contamination; wear respiratory protection when there is potential for inhalation; clear up spills immediately and dispose of wastes safely. Ensure safe systems of work or equivalent arrangements are in place to manage risks. Regularly inspect, test and maintain all control measures. Consider the need for risk based health surveillance.  
Do not ingest. If swallowed then seek immediate medical assistance.

### Personal protective equipment

**Respiratory protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [boiling point >65 °C (149 °F)].

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

### Hand protection Remarks

: Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Select gloves tested to a relevant standard (e.g. Europe EN374, US F739). When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene, PVC gloves may be suitable.

### Eye protection

: Wear goggles for use against liquids and gas. If a local risk assessment deems it so then chemical splash goggles may not be required and safety glasses may provide adequate eye protection.

### Skin and body protection

: Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.

### Thermal hazards

: Not applicable

### Protective measures

: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

## Environmental exposure controls

### General advice

: Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation. Information on accidental release measures are to be found in section 6.

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| Appearance                              | : liquid   |
| Colour                                  | : blue   |
| Odour                                   | : Hydrocarbon  |
| Odour Threshold                         | : Data not available   |
| pH                                      | : Not applicable   |
| Melting point/freezing point            | : Data not available   |
| Initial boiling point and boiling range | : 25 - 170 °C / 77 - 338 °F  |
| Flash point                             | : <= -40 °C / -40 °F   |
| Evaporation rate                        | : Data not available   |
| Flammability (solid, gas)               | : Not applicable   |
| Upper explosion limit                   | : no data available  |
| Lower explosion limit                   | : no data available  |
| Vapour pressure                         | : 30 - 90 kPa (38.0 °C / 100.4 °F)<br>60 - 90 kPa (50.0 °C / 122.0 °F) |
| Relative vapour density                 | : 0.744 (15 °C / 59 °F)  |
| Relative density                        | : Data not available   |
| Density                                 | : Typical 744 kg/m <sup>3</sup> (15.0 °C / 59.0 °F)                    |
| Solubility(ies)                         |  |
| Water solubility                        | : negligible   |
| Solubility in other solvents            | : Data not available   |
| Partition coefficient: n-octanol/water  | : log Pow: 2 - 7   |
| Auto-ignition temperature               | : Data not available   |
| Decomposition temperature               | : Data not available   |

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

|                      |   |
|----------------------|---|
| Viscosity            |   |
| Viscosity, dynamic   | : Data not available  |
| Viscosity, kinematic | : 0.5 - 0.75 mm <sup>2</sup> /s (40 °C / 104 °F)  |
| Explosive properties | : Classification Code: NOT CLASS: Not classified  |
| Oxidizing properties | : Not applicable  |
| Conductivity         | : Low conductivity: < 100 pS/m, The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semiconductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid |

---

### SECTION 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | : May oxidise in the presence of air.  |
| Chemical stability                 | : Stable under normal conditions of use.   |
| Possibility of hazardous reactions | : No hazardous reaction is expected when handled and stored according to provisions  |
| Conditions to avoid                | : Avoid heat, sparks, open flames and other ignition sources.<br><br>In certain circumstances product can ignite due to static electricity.  |
| Incompatible materials             | : Strong oxidising agents.   |
| Hazardous decomposition products   | : Hazardous decomposition products are not expected to form during normal storage.<br>Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. |

---

### SECTION 11. TOXICOLOGICAL INFORMATION

|                      |  |
|----------------------|--|
| Basis for assessment | : Information given is based on product data, a knowledge of the components and the toxicology of similar products.<br>Unless indicated otherwise, the data presented is representa- |
|----------------------|--|



# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

tive of the product as a whole, rather than for individual component(s).

### Acute toxicity

#### Product:

Acute oral toxicity : LD 50 (Rat): >300 - <=2000 mg/kg  
Remarks: Harmful if swallowed.

Acute inhalation toxicity : LC 50: >10 - <= 20 mg/l  
Remarks: Harmful if inhaled.

Acute dermal toxicity : LD 50 (Rabbit): >1000 - <=2000 mg/kg  
Remarks: Harmful in contact with skin.

### Skin corrosion/irritation

#### Product:

Remarks: Irritating to skin.

### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye.  
Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

#### Product:

Remarks: Not a sensitiser.  
Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vivo : Remarks: May cause heritable genetic damage

Remarks: Mutagenicity studies on gasoline and gasoline blending streams have shown predominantly negative results.

### Carcinogenicity

#### Product:

Remarks: Contains Benzene, CAS # 71-43-2.  
Known human carcinogen.  
May cause leukaemia (AML - acute myelogenous leukaemia).

# SAFETY DATA SHEET

According to the Hazardous Products Regulations  
1907/2006/EC

## AVGAS 100LL

Version  
5.1

Revision Date:  
2018-02-19

SDS Number:  
800001008388

Print Date: 2018-02-20  
Date of last issue: 20.06.2017  
Date of first issue: 01.05.2012

---

Remarks: Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans.

### Reproductive toxicity

#### Product:

Effects on fertility

:

Remarks: Contains Toluene, CAS # 108-88-3.  
Causes foetotoxicity in animals at doses which are maternally toxic.

Many case studies involving abuse during pregnancy indicate that toluene can cause birth defects, growth retardation and learning difficulties.

Remarks: Contains n-Hexane, CAS # 110-54-3.  
May impair fertility at doses which produce other toxic effects.

Remarks: Many case studies involving abuse during pregnancy indicate that toluene can cause birth defects, growth retardation and learning difficulties.

Remarks: This product contains tetraethyl lead which may cause harm to the unborn child. Exposure to tetraethyl lead is associated with developmental effects which include reduced birth weight, reduced gestational age and neurobehavioral effects.

### STOT - single exposure

#### Product:

Remarks: High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death. Based on human experience, breathing of vapours or mists may cause a temporary burning sensation to nose, throat and lungs.

### STOT - repeated exposure

#### Product:

Remarks: Kidney: caused kidney effects in male rats which are not considered relevant to humans

Remarks: Causes damage to organs through prolonged or repeated exposure.  
Blood forming organs

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

### Aspiration toxicity

#### Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

### Further information

#### Product:

Remarks: Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Remarks: Contains Toluene, CAS # 108-88-3.  
Prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. Abuse of vapours has been associated with organ damage and death.

Remarks: Contains Benzene, CAS # 71-43-2.  
Myelodysplastic syndrome (MDS) was observed in individuals exposed to very high levels (50 ppm to 300 ppm range) of benzene over a long period of time in the workplace. The relevance of these results to lower levels of exposure is not known.

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

## SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment : Fuels are typically made from blending several refinery streams. Ecotoxicological studies have been carried out on a variety of hydrocarbon blends and streams but not those containing additives.  
Information given is based on a knowledge of the components and the ecotoxicology of similar products.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

### Ecotoxicity

#### Product:

Toxicity to fish (Acute toxicity) :  
Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic

Toxicity to crustacean (Acute toxicity) :  
Remarks: LL/EL/IL50 > 1 <= 10 mg/l  
Toxic

Toxicity to algae/aquatic plants (Acute toxicity) :  
Remarks: LL/EL/IL50 > 1 <= 10 mg/l

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

### Toxic

Toxicity to fish (Chronic toxicity) : Remarks: NOEC/NOEL expected to be > 1.0 - <= 10 mg/l

Toxicity to crustacean (Chronic toxicity) : Remarks: NOEC/NOEL expected to be > 1.0 - <= 10 mg/l

Toxicity to microorganisms (Acute toxicity) : Remarks: LL/EL/IL50 >10 <= 100 mg/l  
Harmful

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Major constituents are expected to be readily biodegradable, but the product contains components that may persist in the environment  
Oxidises rapidly by photo-chemical reactions in air.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Contains constituents with the potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 2 - 7

### Mobility in soil

#### Product:

Mobility : Remarks: If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.  
Floats on water.

### Other adverse effects

#### Product:

Additional ecological information : Films formed on water may affect oxygen transfer and damage organisms.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth-

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

ods in compliance with applicable regulations.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.  
Do not dispose into the environment, in drains or in water courses  
Do not dispose of tank water bottoms by allowing them to drain into the ground.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Residues may cause an explosion hazard.  
Do not puncture, cut, or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.  
Do not pollute the soil, water or environment with the waste container.

Local legislation  
Remarks : Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

## SECTION 14. TRANSPORT INFORMATION

### TDG

UN number : 1203  
Proper shipping name : GASOLINE  
Class : 3  
Packing group : II  
Labels : 3  
Marine pollutant : no

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1203  
Proper shipping name : GASOLINE  
Class : 3  
Packing group : II  
Labels : 3

#### IMDG-Code

UN number : UN 1203  
Proper shipping name : GASOLINE  
Class : 3  
Packing group : II

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

---

|                  |       |
|------------------|-------|
| Labels           | : 3   |
| Marine pollutant | : yes |

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

|                     |                  |
|---------------------|------------------|
| Pollution category  | : Not applicable |
| Ship type           | : Not applicable |
| Product name        | : Not applicable |
| Special precautions | : Not applicable |

### Special precautions for user

|         |  |
|---------|--|
| Remarks | : Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport. |
|---------|--|

|                               |   |
|-------------------------------|---|
| <b>Additional Information</b> | : MARPOL Annex 1 rules apply for bulk shipments by sea. |
|-------------------------------|---|

---

## SECTION 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

### The components of this product are reported in the following inventories:

|     |                          |
|-----|--------------------------|
| DSL | : All components listed. |
|-----|--------------------------|

---

## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health

# SAFETY DATA SHEET

According to the Hazardous Products Regulations Regulation  
1907/2006/EC

## AVGAS 100LL

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 2018-02-20          |
| 5.1     | 2018-02-19     | 800001008388 | Date of last issue: 20.06.2017  |
|         |                |              | Date of first issue: 01.05.2012 |

Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

This product contains tetraethyl lead which may accumulate in the human body. There are indications from human epidemiological studies that excessive prenatal exposure to tetraethyl lead may cause developmental and neurobehavioural effects in children.

This product is intended for use in closed systems only.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Revision Date : 2018-02-19

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN