

Date of Issued : 01 Augt 2015 PT PERTAMINA (PERSERO)

Revison No : 3 Marketing & Trading Directorate Page : 1 from 5 **Unit Aviation** 

1. MATERIAL AND PRODUCER IDENTIFICATION

PRODUCT NAME **AVIATION GASOLINE (AVGAS) 100 LL** 

USE **AVIATION PISTON ENGINE** 

**PRODUCER** PT PERTAMINA (PERSERO) Unit Aviation

Wisma Nusantara Building 22<sup>nd</sup> Floor

Jl. MH. Thamrin Kav. 59 Jakarta Pusat - 10350

Telepon: +6221-3920811/3920716/3920638

Ext: 2240 / 2260 Fax: +6221-3920639/39200684 E-mail: aviation@pertamina.com

**Emergency Telephone Numbers Within 24** 

Hours

Website: www.pertamina.com

+6221-5507482

Soekarno Hatta Fuel Terminal & Hydrant Installation

(SHAFTHI)

**MSDS Phone Number Information** +6221-3920811/3920716/3920638

Ext: 2240 / 2260

2. HAZARD IDENTIFICATION

Hazard Communication Standard OSHA 29 CFR 1910.1200 (dangerous)

**Exposure Effects** Eye irritation, respiratory tract irritation, dizziness,

nausea, loss of consciousness, dry skin and chapped. Inhalation can cause greater damage to the liver, loss of

consciousness and

death. Abuse (inhale / ingest), misuse (eg, as a solvent, washing materials) in a long period of time can result in neurological effects are highly variable, impaired

production of red blood grains and

spinal cord damage and anemia. Impaired nervous system can lead to fatigue, chronic headaches, impaired vision

and hearing. These effects need to be avoided may occur

in places / supply & distribution environment, for example at Depot, DPPU, and others.

Blue liquid. Highly flammable **Emergency Response Data** 

3. MATERIAL COMPOSITION/IDENTITY INFORMATION

**Chemical Name** Gasoline and Synonyms added with

Additive

Conc Symbol (s) R-phrase CAS **EINECS** Chemical

86290-Identity

289-220-8

R12, R38, R45 R46,

99.00 - 100.00%

Gasoline. low boiling point

81-5

F+, Xi, T, Xn, N

R63, R65, R67, R51/53

naphtha

78-00-2 201-075-4

T+, N

R26/27/28, R61, R62, R33, R50/53

0,00 - 0,125%

Tetraethyl lead



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4. FIRST AID MEASURES

Eye Contact : Rinse eyes with water as much as possible. If there is irritation to the eyes soon

went to the doctor.

Skin contact : Wash the affected body part with soap and water. Wash clothes that

contaminated before reuse.

Inhaled : Stop / Avoid further inhalation. In the event of respiratory tract irritation, dizziness,

unconsciousness, then immediately seek help health professionals or immediately call a physician. When the BREATH STOPS, GIVE RESUSCITATION FROM MOUTH TO

**MOUTH** 

Consumed : If swallowed immediately give 1 or 2 glasses of water and then immediately call /

Bring to a doctor, the Emergency Installation or other hazard services center

Concern : Never once in a while stimulating effect vomiting or give something to

patients who are unconscious.

Note to Physician : The ingested material is likely to be absorbed into the lungs

can result in pneumoconiosis chemically, so it needs handling right.

5. PROCEDURES FOR FIRE FIGHTING

Media Fire Fighting : Carbon Dioxide, Dry Chemical, and Foam

Fire Extinguished Procedure

Carbon Dioxide
 Dry Chemical Powder
 Spray it to the front fire from upwind
 Spray it to the front fire from upwind

• Foam / Busa : When in a container, spray the foam on the inside wall, not to

the burning liquid in the direction of the wind. When only a scattered, spray it to the fire until all covered in the same

direction with the wind.

For fires in relatively closed areas, the fire fighters must wear

Special Protective Equipment : Self Contained Breathing Apparatus (SCBA).

Occurs when there is an unprotected storage tanks

Other Fire and Explosion Hazards : Around the fire location

NFPA Hazard ID : Ease Burned = 3 Instability = 1

Decomposition of Hazardous Materials : Carbon monoxide

**6.PREVENTION PROCEDURES SPILL AND LEAK** 

Procedure Notes : Report the spill happened according to the determined local

authorization. If the spills are expected to enter drains, etc.,

report it immediately.

Spill or Leakage Procedure : Put away all conditions that can enable the occurrence of

ignition. Do the absorption of the spills using a sorbent, sawdust saws, clay and other fire retardant materials. Clean up and dispose of in landfills that have been determined by local

regulations.

Environmental Prevention : Prevent the entry of spills into sewers, drains, or seepage into

the ground.



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7. HANDLING AND STORAGE

DO NOT SUCK Avgas 100 by MOUTH. Avgas 100 MUST NOT BE USED AS SOLVENTS OR Handling

> AS WASH MATERIALS. Equipment should Explotion proof and do not spray. Handling in open areas antidotal the possibility of sparks. Containers that can be moved must go through a feasibility test. At the time of filling the container should

placed on the surface (ground) while the instrument should cover

remains attached to the container to anticipate potential

the occurrence of static electricity.

Storage place should be in "grounding" and "bonding" and equipped Storage

with self-closing valves, pressure vacuum bungs and flame trap.

Keep away from flammable substance, fire, electricity or heat source Other.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation When Avgas 100 is used in a relatively closed room must be provided with

vents out and the equipment used must be Explotion proof.

**Respiratory Protective** : Wear respiratory protective Equipment if the concentration in the air has

exceeded the threshold limit value. Equipment

Eyes Protective Equipment : Wear a googles for chemicals Skin protection Use gloves rubber or PVC. Apply a good personal hygiene

The threshold values 300 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Clear, Blue, Bright Liquid Appearance

Odour Hvdrocarbon рΗ Data not available 25 - 170 °C

Initial Boiling Point and Boiling

Range

Freezing/melting Point Data not available

 $< -40^{\circ}C$ Flash Point

Lower/upper Flammability or

explosion limits

Auto Ignition Temperature > 250 °C

Vapour Pressure 380 -490 hPa at 37,8 °C Specific gravity Data not available 710 Kg/L at 15 °C Density Solubility in other solvents Data not available

n- octanol/water partition

coefficient (low Pow)

2-7

Data not available

 $0.5 - 0.75 \text{ mm}^{2}\text{/s}$  at  $40 \, ^{\circ}\text{C}$ Kinematic viscosity

Data not available Vapour Density (air=1)

10. STABILITY AND REACTIVITY

Stability against temperature, light, etc. : Stable

State of the situation that should be

Heat, sparks, flame or conditions that can cause static electricity

avoided

Incompatibility (Materials to avoid) : Halogens, strong acids, bases and strong oxidizing agents



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Decomposition of Hazardous Materials : Carbon Monoxide

Polymerization formation of hazardous : not occur

materials

### 11. TOXICOLOGICAL DATA

-----TOXICOLOGICAL SUBKRONIK-----

Experiments conducted on mice with exposure through the skin for 5 days / week for 90 days at doses of exposure are expected to be higher than normal. In the experiment was conducted observations of the inner organs and clinical chemistry of body fluids, but the result shows that this product has no harmful effects.

-----REPRODUCTIVE TOXICOLOGY------

Exposure through the skin of pregnant mice at representative dosage does not give adverse effects to the mother and to their descendants.

-----TOXICOLOGICAL KRONIK -----

Base oil contained in these products SOLVENT REFINED OR IS hydrotreated. Studies conducted by rubbing this product on mice skin does not show carcinogenic effects.

----- OTHER TOXICOLOGY DATA -----

Laboratory experiments on this product after handling gasoline showed activity in the skin carcinogens. This is especially true if the wearer after use of these products does not rinse his hands. However, exposure to this product after handling diesel oil will give no carcinogenic effect.

### 12. ECOLOGICAL INFORMATION

The influence and damage to the environment

Seeps into the ground can cause groundwater contamination or aquaifer, Large volumes may penetrate soil and could contaminate groundwater, demage arganisms

### 13. WASTE DISPOSAL

Waste disposal

: This product can be burned in a covered place for the purpose

of obtaining energy, or burned in the incinerator.

This product can also be processed at a recycling of materials

that have been determined by the government.

Information Regulations

Avgas sludge waste is classified into B3 waste, and its disposal of this material should be in accordance with B3 waste.

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.

#### 14. TRANSPORT INFORMATION

**USA DOT** 

SHIPPING NAME : Aviation Gasoline

HAZARD CLASS & DIV : III
ID/UN NUMBER : 1203
ERG NUMBER : 128
PACKING GROUP : PG II
DANGEROUS WHEN WET : NO
POISON : NO
PLACARD : Flammable

RID/ADR

HAZARD CLASS : 3 HAZARD SUB CLASS : 3 (b)



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LABEL : 3
DANGER NUMBER : 33

UN NUMBER : 1203

SHIPPING NAME : Aviaition Gasoline

IMO

HAZARD CLASS & DIV : 3
ID/UN NUMBER : 1203
PACKING GROUP : PG II

SHIPPING NAME : Aviation Gasoline LABEL (s) : Flammable Liquid

ICAO/IATA

UN no : 1203
Proper Shipping Name : Gasoline
Technical name : Leaded
Class / Devision : 3
Packing group : II

15. INFORMATION LEGISLATION

Status inventory : Listed on the TSCA, EINECS / ELINCS and AICS.

ECC labeling : Nothing

Symbol : Xn = Harmful, F = Flammable

Risk Phrase(s) : R10-22-38-52 / 53

Flammable. Harmful if swallowed. Irritation of the skin. Harmful

to aquatic life

Safety Phrase(s): : S43-24-62-61.

Be sure to do exposure and read the instructions before use. In the circumstances of accident or if you feel uncomfortable, seek medical help. Keep out of children's reach. Avoid contact with

skin. If a fire occurs, use CO2, dry chemical or foam.

### **16. REGULATION INFORMATION**

#### WARNING LABEL:

- · Containing aromatic petroleum oil.
- · Harmful in contact with skin
- Flammable

### CAN CAUSE SKIN CANCER, DAMAGE TO LIVER AND DAMAGE TO BLOOD COMPONENTS.

The condition and suitability of products for users beyond our guarantee, all risks of use of the
product is borne by the user. Warning signs and procedures for handling this product must have by
users and personnel who handle these products. Forbidden to change this document, except with law
legacy.