

Material Safety Data Sheet

KHAURA AF 15W- 40

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Product code: 264013

Issue : 1

Date: 23/08/2011

Invalidates and replaces the issue of : New

PRODUCT LABELS

LABELLING (standard or EU)

Not applicable

TRANSPORT LABELLING :

Not applicable

1. Product and company identification

Commercial name:

KHAURA AF 15W- 40

Product

Oil for industrial gas engines

application:

Company name:

ENOC International Sales LLC

Address:

Sheikh Rashid Road

P.O. Box 6442

DUBAI, UAE

Emergency number of the

00 971 4 3374400

company :

Fax:

00 971 4 3134602

2. Composition / information on ingredients

COMPOSITION

Blended with mineral base oil SN 150 & SN 500 CAS 64742- 65- 0 at 91.23 % with additive concentrate at 8.77 %.

Chemical nature:

Petroleum derived severely refined mineral base product in which the polycyclic aromatic hydrocarbons (PCA or PAH) content measured by IP 346 is above 3%.

Substances contributing to hazards :

None to our knowledge, in normal use

3. Hazard identification

- Adverse human health effects :

Under normal conditions of use, the product holds no danger of intoxication

- Environmental effects :

Don't dispose of this product into the

- physical and chemical hazards :

environment
No specific risk of fire or explosion under normal conditions of use

4. First-aid measures

IN CASE OF SERIOUS MANIFESTATIONS, CALL IN A DOCTOR OR EMERGENCY MEDICAL CARE

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Route of exposure :

- Inhalation : Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat.
Transport the person into fresh air, keep warm and allow to rest
- Contact with the skin : Immediately remove all soiled or stained clothing
Wash the affected area immediately and repeatedly with soap and water.
- Contact with the eyes : Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes
- Ingestion : Possible risk of vomiting and diarrhoea
Do not induce vomiting to avoid the risk of aspiration into the respiratory tract
Give nothing to drink
- Aspiration : If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care

5. Fire-fighting measures

- Flash point: See heading 9
- Fire extinguishers:
 - suitable : Foam, carbon dioxide (CO2), powder
 - not suitable : do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames.
- Specific hazards: Incomplete combustion and thermolysis produce toxic gases such as CO, CO2, various hydrocarbons, aldehydes and soot. These are highly dangerous if inhaled
- Firefighter protection: An insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases

6. Accidental release measures

- See also heading 8 and 13
- After spillage / leakage
 - on soil Surfaces on which the product has been spilled may become slippery
Avoid discharge of the material in a stream or a sewer or cause ground contamination.
recovery by physical means

In the event of a major spill, inform the competent authorities if the situation cannot be brought under control rapidly and efficiently
 - on water Use floating absorbent material to be removed mechanically
If the material has been discharged into a stream or a sewer, inform the authorities of the possible presence of floating materials

7. Handling and storage

HANDLING

- Technical measures :
 - . prevention of user exposure Provide adequate ventilation in case of the potential formation of vapour, fumes, mist or spray
Take all measures to reduce the risk of exposure, in particular to used or waste product
Keep away from flammable material; keep away from food and beverages

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. Prevention of fire and explosion

Empty containers may contain flammable or explosive vapours
There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product

- Precautions :

Avoid accumulate of these: they are to be disposed off safely after use
accidental oil leakage from a pressurized circuit resulting in fine sprayed and flammable jets (the lower flammability limit of oil fog is reached with concentrations of around 45 grams/m3).
Avoid static electricity build up with connection to earth.
Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example)

- Safe handling advice :

Avoid contact with strong oxidizers.
Use only hydrocarbon-resistant containers, joints, pipes etc...

STORAGE

- Technical measures :

Make the necessary arrangements and take all measures to prevent water and ground pollution

- Storage conditions :

. Suitable

Store at room temperature, protected against contact with water and moisture, and away from any source of ignition
Keep containers closed when not in use

. To be avoided

- Incompatible products :
Packaging materials :

Do not store exposed to the elements
Dangerous reaction with strong oxidizing agents

. Recommended

Use only hydrocarbon-resistant containers, joints, pipes, etc.
Keep in original container if possible

8. Exposure controls / personal protection

Engineering measures:

Use the product in well-ventilated premises
When working on enclosed place (tanks, reservoirs...), make sure that atmosphere is not suffocating and/or wear recommend equipment

- Control parameters:

. Occupational exposure limit

. oil mist : 10mg/m3, for 15 minutes
. oil mist : 5mg/m3, for 8 hours

Personal protective equipment

- Hand protection:

Impermeable hydrocarbon-proof gloves
recommended material: nitrile , neoprene

- Eye protection:

Goggles, in case of splashing

- Skin and body different hand protection:

As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums)
Don't wear ring, watch or similar thing which will be able to hold the product and may give rise to

Industrial hygiene

some skin diseases
Avoid prolonged and repeated contact with the skin, especially with used or waste product
Immediately remove all soiled or stained clothing.
If the product comes into contact with the skin, wash the affected area immediately and repeatedly with soap and water

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Use no abrasives, solvents or petroleum spirit
Do not use cloths stained with the product to dry hands
Don't put the product-soaked rags in the pockets of working clothes
Do not eat, drink or smoke while handling the product

9. Physical and chemical properties

Appearance:

- Physical state:

Liquid

- Colour:

Dark brown

Odour:

Characteristic

pH:

Not applicable

Specific
temperatures
of change in
state

- Pour Point:

-30 °C (ASTM D 97).

Flash point:

228 °C (ASTM D 92)

Auto-ignition
temperature:

> 250°C (ASTM E 659)

This temperature may be significantly lower under particular conditions (oxidation on high surface areas)

Explosion limits:

The lower flammable limit of oil mist is reached at concentrations in the range of 45 g/m³

Density:

0.869g/l at 29.5°C

Solubility:

- in water:

Insoluble and immiscible.

- in organic solvents:

Soluble in many common

- Viscosity:

solvents.
Kinematic viscosity at 40 °C : approx 108.6 cSt.

Log P n-octanol / water at 20°C

mineral oil > 6

10. Stability and reactivity

Stability:

The product is stable under normal temperatures of storage, handling and

Dangerous reactions:

use
Not dangerous reaction known under normal conditions of use, to refer to the technical

- Conditions to avoid:

notice
Heat (temperatures above flash point), sparks, ignition points, flames, static

- Materials to avoid:

electricity
Avoid contact with strong

Dangerous decomposition
products:

oxidizing
Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO₂, various hydrocarbons, aldehydes and soot

11. Toxicological information

ACUTE TOXICITY/LOCAL EFFECTS

- Inhalation:

Risk is improbable under normal conditions of use
Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.

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- Contact with the skin:

- Ingestion:

SENSITIZATION

CHRONIC TOXICITY OR LONG-TERM TOXICITY

- Contact with the skin:

- Carcinogenicity :

Risk is improbable under normal conditions of

use
In case of ingestion of small quantities, no important effect observed. in case of ingestion of larger amounts: abdominal pain, diarrhoea, ...
To our knowledge, the product dont induce sensitization

Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing
During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repated application and continuous exposure.

Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

12. Ecological information

Mobility:

- Air:

- Ground:

- Water:

Persistence and degradability:

Ecotoxicity:

there is a slow loss by

evaporation.
Given its physical and chemical characteristics, the product generally shows little mobility in the ground

The product is insoluble; it spreads on the surface of the

water.
Experimental data on the finished product are not available
However, the "mineral oil" portion of the virgin product is intrinsically biodegradable
Particular ingredients may not be biodegradable

The virgin product is considered to present no danger for land-growing organisms.
It is considered to present a little danger for aquatic life.
no information available for used product

13. Disposal considerations

Waste disposal :

Used packaging disposal :

Industrial waste number EU :

Dispose in a safe manner in accordance with local/national regulations
If need be, collection by an authorized waste contractor and regeneration or incineration in an approved installation

Conform to the regulation in

effect
13-02-02 (non-chlorinated engine, gear, lubricating oils)

14. Transport information

UN Number :

Road (ADR) / Rail (RID)/ River (ADNR)

Marine (IMO-IMDG)

Airline (ICAO / IATA)

unregulate

d Not restricted for

transport. Not restricted for

transport. Not restricted for

transport

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15. Regulatory information

EUROPEAN REGULATIONS

* EC labeling :

- Symbol(s)	None
- R Phrase(s)	None
- S Phrase(s)	None

16. Other information

This data sheet conforms to standards defined by directive 93/112/EEC

"This Safety Data Sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of our knowledge at the date indicated hereabove.

It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his or her activity. The user bears sole liability for the precautions required when using the product.

The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive.

It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned."

End of document.

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