

Product name: AEON 3000 OIL / F-2105

Date 20.12.1995

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Identification of the article

Product name

AEON3000OIL / F-2105

Recommended use

Compressor oil

Product code

743460

1.2 Manufacturer, importer, supplier

1.2.1 Supplier

Gardner Denver Oy

1.2.2 Street address

Etu-Hankkionkatu 9

Postcode and post office

33700 Tampere

Post-office box

P.O.Box 516

Postcode and post office

33101 Tampere, Finland

Telephone

+358 (0)205 441 41

Telefax

+358 (0)205 441 40

1.2.3 Name and address of the informant in emergency cases

HYKS, Poison Information Center, Stenbäckinkatu 11, FIN-00290 Helsinki

Emergency telephone number

+358-9-471 977 or +358-9-4711, HYKS Poison information center (24h)

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Chemical characterisation

Mineral oil-based, solvent-refined paraffinic hydrocarbons and additives mixture.

2.2 Hazardous components

| 2.2.1 CAS-No. | 2.2.2 Chemical name of the substance | 2.2.3 Weight % | 2.2.4 Classification |
|------------------|--|-------------------|-------------------------|
|------------------|--|-------------------|-------------------------|

| | | | |
|---|-------------|-------------|-----------------------|
| * | Mineral oil | > 90 %(m/m) | HTP, see section 8.2. |
|---|-------------|-------------|-----------------------|

3. HAZARDS IDENTIFICATION

HUMAN HEALTH HAZARDS: No specific hazards under normal use conditions. Contains mineral oil for which an exposure limit for oil mist applies. Prolonged or repeated exposure may give rise to dermatitis. Used oil may contain harmful impurities.

DANGERS OF FIRE AND EXPLOSION: Not classified as flammable but will burn.

ENVIRONMENTAL HAZARDS: Risk of soil and water pollution. Not readily biodegradable. Has the potential to bioaccumulate.

See also sections 5, 11 and 12.

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4. FIRST AID MEASURES

4.1 General advice

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4.2 Inhalation

If the person exposed to oil mist or vapour suffers from unusual fatigue or nausea, get him or her into fresh air. If the symptoms continue, see a doctor.

4.3 Skin contact

Remove contaminated clothing and wash affected skin with soap and water. If high pressure injection injuries occur, obtain medical attention immediately. If persistent irritation occurs, obtain medical attention.

4.4 Eye contact

Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

4.5 Ingestion

Wash out mouth with water and obtain medical attention. DO NOT INDUCE VOMITING. If the patient is not nauseous, s/he may be given 1-2 tablespoons of cream.

4.6 Notes to physician

Treat symptomatically. Aspiration into the lungs may cause chemical pneumonitis. See section 11.5 concerning the effects on health.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Foam and dry chemical powder. Carbon dioxide, sand or earth may be used for small fires only.

5.2 Extinguishing media which must not be used for safety reasons

Do not use water in a jet. Use of Halon extinguishers should be avoided for environmental reasons.

5.3 Specific hazards

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5.4 Special protective equipment for firefighters

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

5.5 Specific methods

-

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Evacuate the area of all non-essential personnel.

See Treatment section 7.1.

See Personnel protection equipment section 8.3.

6.2 Environmental precautions

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Inform local authorities if this cannot be prevented. Shut off leaks, if possible without personal risk.

6.3 Methods for cleaning up

Leaks are absorbed into sand, soil or other suitable absorbent material. Sweep up and remove to a suitable, clearly marked container for disposal. Dispose in compliance with the instructions of local authorities. See Section 13 for information on disposal.

6.4 Specific methods

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7. HANDLING AND STORAGE

7.1 Handling

When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages.

7.2 Storage

Keep in a cool, dry, well-ventilated place. Use properly labelled and closable containers. Avoid direct sunlight, heat sources, and strong oxidising agents.

Storage temperature: 0 °C minimum

Storage temperature: 50 °C maximum

For containers, use: mild steel, high density polyethylene

For containers or container linings, avoid: PVC

Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures

The product should be handled in closed systems when possible or adequate ventilation must be arranged. Avoid repeated or extended contact with the skin and inhaling oil mist. Use personal protection equipment when necessary.

8.2 National occupational exposure limits

8.2.1 National occupational exposure limits

| | |
|---------------------------------------|---------------------------|
| Chemical name of the substance | Oil mist |
| | 5 mg/m ³ (8 h) |

8.3 Personal protective equipment

8.3.1 Hygiene measures

Wash hands before eating, drinking, smoking and using the toilet.

8.3.2 Respiratory protection

Not normally required. Respiratory protection equipment with a combination A2/P2 filter (organic gases and solvent fumes/organic dust) must be used when necessary.

8.3.3 Hand protection

PVC or nitrile rubber gloves

8.3.4 Eye protection

Wear safety glasses or full face shield if splashes are likely to occur.

8.3.5 Skin and body protection

Minimise all forms of skin contact. Wear overalls to minimise contamination of personal clothing. Launder overalls and undergarments regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------|---|--------------------|
| 9.1 | Form, Colour, Odour | brown, oily liquid |
| 9.2 | PH | - |
| 9.3 | Information on changes in the physical state | |
| 9.3.1 | Boiling point/range | >280 °C |
| 9.3.2 | Melting point/range | - |
| 9.3.3 | Decomposition temperature | - |
| 9.4 | Flash point | 220 °C (ASTM D 92) |
| 9.5 | Flammability (solid, gas) | - |
| 9.6 | Autoignition temperature | >320 °C |

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|-------------|--|--|
| 9.7 | Explosive properties | - |
| 9.8 | Explosion limits | |
| | - lower | 1 %(V/V) |
| | - upper | 10 %(V/V) |
| 9.9 | Oxidising properties | - |
| 9.10 | Vapour pressure | < 0.5 Pa (20 °C) |
| 9.11 | Relative density | 885 kg/m ³ (15 °C) |
| 9.12 | Solubility | |
| | - water solubility | Insoluble |
| | - fat solubility | - |
| 9.13 | Partition coefficient (n-octanol/water) | |
| | log P _{ow} > 6 (estimate) | |
| 9.14 | Viscosity | 41.4 - 50.6 mm ² /s (40 °C) |
| 9.15 | Further information | |
| | Pour point -30 °C | |
| | Calcium < 0,3 % (m/m) | |
| | Zinc < 0,2 % (m/m) | |
| | Magnesium < 0,1 % (m/m) | |

10. STABILITY AND REACTIVITY

- 10.1** Conditions to avoid
-
- 10.2** Materials to avoid
-
- 10.3** Hazardous decomposition products
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11. TOXICOLOGICAL INFORMATION

- 11.1** Acute toxicity
Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.
- Dermally: LD₅₀ > 2000 mg/kg
Orally: LD₅₀ > 2000 mg/kg
Inhalation: Data not available.
- 11.2** Primary irritation
Eyes: Expected to be slightly irritant.
Skin: Expected to be slightly irritant.
Respiratory tract: If mists are inhaled, slight irritation of the respiratory tract may occur.
- 11.3** Sensitisation
Not a skin sensitiser.
- 11.4** Long term toxicity
Not mutagenic. Product is based on mineral oils of types shown to be non-carcinogenic in animal skin-painting studies.
- 11.5** Human experience
Prolonged and/or repeated contact with products containing mineral oils can result in defatting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene.

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11.6 Further information

Used engine oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

12.1 Persistence and degradability

12.1.1 Biological degradability

Not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

12.1.2 Chemical degradation

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12.2 Bioaccumulation

Has the potential to bioaccumulate.

12.3 Mobility

Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

12.4 Ecotoxicity effects

12.4.1 Aquatic toxicity

Poorly soluble mixture. Practically non-toxic, LC/EC50 > 100 mg/l, to aquatic organisms (estimated). May cause physical fouling of aquatic organisms.

12.4.2 Toxicity to other organisms

Data not available.

12.5 Further information

Ecotoxicological data have not been determined specifically for this product. Information given is based on data on the components and the ecotoxicology of similar products.

13. DISPOSAL CONSIDERATIONS

Waste containing the product is hazardous and must be disposed of in accordance with legislation on waste and in compliance with the instructions of environmental authorities. Note that the waste is hazardous when handling it and ensure the appropriate cautionary action is taken and that warnings are posted and proper notice is given.

14. TRANSPORT INFORMATION

14.1 UN-No -

14.2 Packaging group -

14.3 Land transport -

14.3.1 Class -

14.3.2 Risk code -

14.3.3 Description of the goods -

14.3.4 Further Information -

14.4 Sea transport -

14.4.1 Class -

14.4.2 Proper shipping name -

14.4.3 Further Information -

14.5 Air transport -

14.5.1 ICAO -

14.5.2 Proper shipping name -

14.5.3 Further Information -

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15. REGULATORY INFORMATION

15.1 Labelling

15.1.1 Symbol(s)

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16. OTHER INFORMATION

16.1 Recommended use

16.1.1 Expressed in writing

Compressor oil

16.1.2 Code for the purpose of use

TO D

KT: 23 .

L:

16.2 Instructions for use

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16.3 Further information

The information in this document should be made available to all who may handle the product. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

16.4 Additional information available from

Gardner Denver Oy, After Sales

16.5 Literary reference