



Material Safety Data Sheet

Product Name:
Kendex 0325D
Revision Date:
19-Sep-2008
Revision Number:
1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 4324
Product Name: Kendex 0325D
Chemical characterization: Liquid
Supplier: American Refining Group, Inc.
Lubricants and Specialty Products Division
77 North Kendall Avenue
Bradford, PA 16701
www.amref.com
Emergency Telephone Number: CHEMTREC: 1-800-424-9300
ARG Watchblock: 814-368-1297

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % | TSCA | DSL |
|--|------------|----------|---------|---------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | 60-70 | Present | Present |
| Residual oils (petroleum), solvent refined | 64742-01-4 | 30-40 | Present | Present |

OSHA - PEL TWA - 5 mg/m³ (oil mist)

3. HAZARDS IDENTIFICATION

Emergency Overview

• This product may be irritating to skin, eyes, nose, throat, and lungs. Use all necessary personal protection when handling this material.

Eye contact
Skin contact
Inhalation

- Contact with eyes may cause irritation
- Can cause skin irritation.
- Avoid breathing vapors or mists
- Inhalation may cause mild irritation of respiratory tract.

3. HAZARDS IDENTIFICATION

| | |
|-----------------------|---|
| Ingestion | • Ingestion may cause nausea, vomiting, and diarrhea. |
| General advice | • As with any chemical, use caution when handling |

4. FIRST AID MEASURES

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|--------------------------------------|--|
| General Advice | • Immediate medical attention is not required |
| Skin Contact | • If exposure symptoms persist, seek medical attention. |
| Eye Contact | • Show this safety data sheet to the doctor in attendance |
| Inhalation | • Wash off immediately with soap and plenty of water |
| Ingestion | • Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes |
| Notes to Physician | • If eye irritation persists, seek medical attention |
| Protection of First-aiders | • Move to fresh air. |
| Aggravated Medical Conditions | • If exposure symptoms persist, seek medical attention. |
| | • Do not swallow. Rinse mouth with water and afterwards drink plenty of water. |
| | • Never give anything by mouth to an unconscious person |
| | • Consult a physician if necessary |
| | • Treat symptomatically |
| | • Use necessary personal protective equipment |
| | • Users with skin conditions (eczema, psoriasis, etc..) respiratory conditions (asthma, bronchitis, emphysema, etc..) or with chemical sensitivities should take protective precautions. |

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Flash Point | • 218°C / 425°F |
| Suitable Extinguishing Media | • carbon dioxide (CO ₂) |
| Extinguishing media which must not be used for safety reasons | • water fog |
| Special exposure hazards in a fire | • alcohol-resistant foam |
| Special Protective Equipment | • dry chemical |
| Specific Methods Firefighting | • Water, except as fog |
| NFPA | • Keep product and empty container away from heat and sources of ignition |
| | • As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear |
| | • In the event of fire, cool tanks with water spray |
| | • Use spark-proof tools and explosion-proof equipment |
| | • Health=0, Fire=1, Reactivity=0, Special=0 |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal Precautions | • Evacuate personnel to safe areas |
| Environmental Precautions | • Keep people away from and upwind of spill/leak |
| | • Wear personal protective equipment |
| | • Remove all sources of ignition |
| | • Ensure adequate ventilation |
| | • Floors may be slippery |
| | • Prevent further leakage or spillage if safe to do so |
| | • Prevent product from entering drains |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------|---|
| Methods for Cleaning Up | <ul style="list-style-type: none"> • Dam up • Soak up with inert absorbent material • Pick up and transfer to properly labelled container for disposal. • Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container |
|--------------------------------|---|

7. HANDLING AND STORAGE

Handling

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|------------------------------------|---|
| Technical Measures Handling | <ul style="list-style-type: none"> • Use only in areas provided with adequate ventilation. • Keep away from open flames, hot surfaces and sources of ignition |
| Safe Handling Advice | |

Storage

| | |
|-----------------------------------|---|
| Technical Measures Storage | <ul style="list-style-type: none"> • Keep containers tightly closed; discard any material that may be contaminated or, which may have changed composition. • Keep away from heat • Protect from light • Keep in properly labelled containers. |
| Incompatible Products | |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--|---|
| Engineering Measures | <ul style="list-style-type: none"> • Ensure adequate ventilation, especially in confined areas • As a rule, at least 10 air changes per hour are recommended at the workplace |
| Personal Protective Equipment | |
| Hand Protection | <ul style="list-style-type: none"> • Impervious gloves |
| Eye Protection | |
| Respiratory Protection | |
| Skin And Body Protection | <ul style="list-style-type: none"> • Long sleeved clothing |
| General Hygiene Considerations | |
| Environmental exposure controls | |

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

| | |
|-----------------------|-----------------|
| Physical State | Liquid |
| Color | Brown |
| Odor | Hydrocarbon oil |

Important Health Safety and Environmental Information

| | |
|----------------------------|-------------------|
| Boiling Point/Range | 315°C / 600°F |
| Pour Point | -9°C / 15°F |
| Density | 7.3 lbs/gallon |
| Vapor Pressure | 0 |
| Water Solubility | Insoluble |
| Specific Gravity | 0.87 |
| VOC Content | No data available |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | • Stable under normal conditions |
| Conditions to Avoid | • Heat, flames and sparks |
| Materials to avoid | • None |
| Hazardous Decomposition Products | • None under normal use |
| Hazardous Polymerization | • When burned :carbon dioxide, carbon monoxide, hydrocarbons • Polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|-----------------------------|--|
| LD50 Dermal Rat | >5000 mg/kg |
| LD50 Oral Rat | >5000 mg/kg |
| LC50 Inhalation | >4000 mg/kg |
| Skin irritation | May cause skin irritation in susceptible persons |
| Eye irritation | May cause eye irritation. |
| Inhalation Toxicity | Move to fresh air in case of accidental inhalation |
| Ingestion Toxicity | Nausea, Vomiting, Diarrhea (detersive effects) |
| Sensitization | May cause sensitization of susceptible persons |
| Chronic Toxicity | Prolonged exposure may cause chronic effects |
| Carcinogenic effects | Did not show carcinogenic or teratogenic effects in animal experiments, based on testing of similar materials. |
| Mutagenic Effects | Does not exhibit mutagenic effects, based on testing of similar materials. |
| Reproductive Effects | No information available |
| Target Organ Effects | No information available |

12. ECOLOGICAL INFORMATION

Component Information

Product Information

| | |
|--------------------------------|----------------------------|
| <u>Aquatic toxicity</u> | • No information available |
|--------------------------------|----------------------------|

Other information

| | |
|--|--|
| Ozone Depletion Potential | • No information available |
| Global warming potential (GWP) | • No information available |
| Additional Ecological Information | • This product is inherently biodegradable according to the OECD definition. |
| Bioaccumulative Potential | • There is no data to indicate that this product and other similar lubricating oil basestocks are significantly bioaccumulated in aquatic organisms. |

13. DISPOSAL CONSIDERATIONS

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|--|---|
| Waste From Residues/Unused Products | • Dispose of in accordance with local regulations |
| Contaminated Packaging | • Dispose of in accordance with local regulations |

14. TRANSPORT INFORMATION**DOT**

| | |
|--------------------|---------------|
| Description | Not Regulated |
|--------------------|---------------|

15. REGULATORY INFORMATION**U.S. Inventories**

| Component | TSCA | CAS-No | Weight % |
|--|---------|------------|----------|
| Petroleum distillates, hydrotreated heavy paraffinic | Present | 64742-54-7 | 60-70 |
| Residual oils (petroleum), solvent refined | Present | 64742-01-4 | 30-40 |

International Inventories

| Component | DSL | EINECS | ENCS | KECL | CHINA | AICS | PICCS |
|--|---------|-----------|------|---------------|-------|------|-------|
| Petroleum distillates, hydrotreated heavy paraffinic | Present | 265-157-1 | | X KE-12546 | X | X | X |
| Residual oils (petroleum), solvent refined | Present | 265-101-6 | | X KE-30124 | X | X | X |

16. OTHER INFORMATION

| | |
|---------------------------|---|
| Literary Reference | None |
| Prepared By | Monica C. Mathers, Product Compliance Coordinator |