



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

Product Number 4612
Product Name Kendex 1264
Synonyms
Chemical characterization Liquid.
Manufacturer, importer, supplier American Refining Group, Inc.
 Lubricants and Specialty Products Division
 77 North Kendall Avenue
 Bradford, PA 16701
EMERGENCY TELEPHONE NUMBER CHEMTREC: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % Weight | TSCA* | DSL - Canada* |
|------------|--|----------|---------|---------------|
| 64742-10-5 | Extracts, petroleum, residual oil solvent | 80-100 | Present | Present |
| 64742-04-7 | Extracts, petroleum, heavy paraffinic distillate solvent | 0-20 | Present | Present |
| T/S | Resins | 0-20 | Present | Present |

* TSCA - United States - Section 8 (b) Inventory (TSCA)

* DSL - Canada - Domestic Substances List (DSL)

OSHA - Final 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.

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| Eye contact | Contact with eyes may cause irritation. |
| Skin contact | Can cause skin irritation. |
| Inhalation | Avoid breathing vapors or mists. Inhalation may cause mild irritation of respiratory tract. . |
| 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 | <ul style="list-style-type: none"> Immediate medical attention is not required If exposure symptoms persist, seek medical attention. Show this safety data sheet to the doctor in attendance |
| Skin contact | <ul style="list-style-type: none"> Wash off immediately with soap and plenty of water |
| Eye contact | <ul style="list-style-type: none"> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If eye irritation persists, seek medical attention |
| Inhalation | <ul style="list-style-type: none"> Move to fresh air. If exposure symptoms persist, seek medical attention. |
| Ingestion | <ul style="list-style-type: none"> Do not swallow. Rinse mouth with water and afterwards drink plenty of water. |

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| | <ul style="list-style-type: none"> ● Never give anything by mouth to an unconscious person ● Consult a physician if necessary |
| Notes to physician | <ul style="list-style-type: none"> ● Treat symptomatically |
| Protection of first-aiders | <ul style="list-style-type: none"> ● Use necessary personal protective equipment |
| Aggravated Medical Conditions | <ul style="list-style-type: none"> ● 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

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| Flash point | <ul style="list-style-type: none"> ● 500°F/260°C |
| Suitable extinguishing media | <ul style="list-style-type: none"> ● carbon dioxide (CO₂) ● water fog ● alcohol-resistant foam ● dry chemical |
| Extinguishing media which must not be used for safety reasons | <ul style="list-style-type: none"> ● Water, except as fog |
| Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases | <ul style="list-style-type: none"> ● Keep product and empty container away from heat and sources of ignition |
| Special protective equipment for firefighters | <ul style="list-style-type: none"> ● As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear |
| Specific methods | <ul style="list-style-type: none"> ● In the event of fire, cool tanks with water spray ● Use spark-proof tools and explosion-proof equipment |
| NFPA (National Fire Protection Association) | <ul style="list-style-type: none"> ● Health=2, Fire=1, Reactivity=0, Special=0 |

6. ACCIDENTAL RELEASE MEASURES

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|----------------------------------|---|
| Personal precautions | <ul style="list-style-type: none"> ● Evacuate personnel to safe areas ● 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 |
| Environmental precautions | <ul style="list-style-type: none"> ● Prevent further leakage or spillage if safe to do so ● Prevent product from entering drains |
| 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/Precautions | <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 | <ul style="list-style-type: none"> ● Wear personal protective equipment ● Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product. |

Storage

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|---------------------------------------|--|
| Technical measures/Precautions | <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 |
|---------------------------------------|--|

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|------------------------------|---|
| | <ul style="list-style-type: none"> ● Protect from light ● Keep in properly labelled containers. |
| Incompatible products | <ul style="list-style-type: none"> ● No information available |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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|--------------------------------------|---|
| Engineering measures | <ul style="list-style-type: none"> ● Ensure adequate ventilation, especially in confined areas |
| Personal protective equipment | |
| Hand protection | <ul style="list-style-type: none"> ● Impervious gloves |
| Eye protection | <ul style="list-style-type: none"> ● Wear tightly fitting safety goggles or safety glasses with side-shields |
| Respiratory protection | <ul style="list-style-type: none"> ● When workers are facing concentrations above the exposure limit they must use appropriate certified respirators |
| Skin and body protection | <ul style="list-style-type: none"> ● Long sleeved clothing |
| Hygiene measures | <ul style="list-style-type: none"> ● Handle in accordance with good industrial hygiene and safety practice ● Keep away from food, drink and animal feeding stuffs ● When using, do not eat, drink or smoke |

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

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|-------------------|------------------|
| Form | Liquid. |
| Appearance | Dark. |
| Colour | Brown. |
| Odour | Hydrocarbon oil. |

Important Health Safety and Environmental Information

| | |
|-------------------------|-----------------|
| Boiling Point | >370°C / >700°F |
| Pour Point | >9°C / 48°F |
| Vapor Pressure | 0. |
| Density | 8.1 lbs/gallon |
| Vapour density | Not applicable. |
| Water solubility | Insoluble. |
| Specific Gravity | 0.97. |

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Product Information

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| LD50/dermal/rat = | >2000 mg/kg |
| LD50/oral/rat = | >5000 mg/kg |
| LC50/inhalation/8h/rat = | not determined |
| Local effects | |
| Skin irritation | May cause skin irritation in susceptible persons. |
| Eye irritation | May cause eye irritation. |
| Inhalation | Move to fresh air in case of accidental inhalation . |

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|------------------------------|--|
| Ingestion | Nausea, Vomiting, Diarrhea (deterative effects). |
| Sensitization | May cause sensitization of susceptible persons. |
| Chronic toxicity | Prolonged exposure may cause chronic effects. |
| Specific effects | |
| Carcinogenic effects | Did show carcinogenic or teratogenic effects in animal experiments, based on testing of similar materials. |
| Mutagenic effects | No information available. |
| Reproductive toxicity | No information available. |
| Target Organ Effects | No information available. |

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component Information

Product Information

Aquatic toxicity NOEL >1000 mg/L, based on test results of similar materials.

Other information:

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| Ozone depletion potential; ODP; (R-11 = 1) | No information available. |
| Global warming potential (GWP) | No information available. |
| Additional ecological information | This product is not readily biodegradable in water but are inherently biodegradable based on test results of similar products. |
| Mobility | |
| Bioaccumulative potential | In theory, extracts have the potential to bioaccumulate due to the hydrocarbon component having log Kow values over 5. |
| Ecotoxicity effects | |
| Aquatic toxicity | Most lubricating oil basestocks, having carbon numbers of C15 or above are too water insoluble to cause acute toxicity. |

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

UN-No Not regulated

Proper shipping name

Packing group

Hazard Class

Description

15. REGULATORY INFORMATION

U.S. Inventories

| CAS | Chemical Name | % Weight | TSCA* |
|------------|--|----------|---------|
| 64742-10-5 | Extracts, petroleum, residual oil solvent | 80-100 | Present |
| 64742-04-7 | Extracts, petroleum, heavy paraffinic distillate solvent | 0-20 | Present |

| | | | | | | | | | |
|-----|--------|------|---------|--|--|--|--|--|--|
| T/S | Resins | 0-20 | Present | | | | | | |
|-----|--------|------|---------|--|--|--|--|--|--|

* TSCA - United States - Section 8 (b) Inventory (TSCA)

International Inventories

| CAS | Chemical Name | % Weight | DSL - Canada* | EINECS* | ECL* | ENCS* | IECS - Inventory of Existing Chemical Substances* | AICS - Australia* | PICCS* |
|------------|--|----------|---------------|-----------|----------|-------|---|-------------------|---------|
| 64742-10-5 | Extracts, petroleum, residual oil solvent | 80-100 | Present | 265-110-5 | KE-14186 | N/A | Present | Present | Present |
| 64742-04-7 | Extracts, petroleum, heavy paraffinic distillate solvent | 0-20 | Present | 265-103-7 | KE-14163 | N/A | Present | Present | Present |
| T/S | Resins | 0-20 | Present | T/S | KE-01954 | T/S | Present | Present | Present |

* DSL - Canada - Domestic Substances List (DSL)

* EINECS - European Inventory of Existing Commercial Substances (EINECS)

* ECL - Korea - Existing and Evaluated Chemical Substances (ECL)

* ENCS - Japan Existing and New Chemical Substances (ENCS)

* IECS - Inventory of Existing Chemical Substances - China

* AICS - Australia - Inventory of Chemical Substances (AICS)

* PICCS - Philippines - Inventory of Chemicals and Chemical Substances (PICCS)

16. OTHER INFORMATION

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Notice

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

End of Safety Data Sheet