

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

Product Number 4608
Product Name Kendex 0888
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* |
|------------|--|----------|---------|---------------|
| T/S | Resins | 60-70 | Present | Present |
| 64742-46-7 | Petroleum distillates, hydrotreated middle | 30-40 | Present | Present |

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

* DSL - Canada - Domestic Substances List (DSL)

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 | <ul style="list-style-type: none"> Contact with eyes may cause irritation |
| Skin contact | <ul style="list-style-type: none"> Prolonged or repeated exposure may cause irritation. |
| Inhalation | <ul style="list-style-type: none"> Can cause respiratory tract irritation. Avoid breathing vapors or mists |
| Ingestion | <ul style="list-style-type: none"> Ingestion may cause nausea, vomiting, and diarrhea. |
| General advice | <ul style="list-style-type: none"> As with any chemical, use caution when handling product. |

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"> Immediate medical attention is not required Wash off immediately with soap and plenty of water. Seek medical attention if effects persists. |
| Eye contact | <ul style="list-style-type: none"> Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes Keep eye wide open while rinsing If exposure symptoms persist, seek medical attention. |
| Inhalation | <ul style="list-style-type: none"> Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapours or decomposition |

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| | products <ul style="list-style-type: none"> ● 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. ● Do not induce vomiting without medical advice ● Never give anything by mouth to an unconscious person ● Consult a physician |
| 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"> ● 137C/280F |
| Suitable extinguishing media | <ul style="list-style-type: none"> ● carbon dioxide (CO2) ● water fog ● alcohol-resistant foam ● dry chemical |
| Specific hazards | <ul style="list-style-type: none"> ● None |
| 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 | 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 ● Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations |
| NFPA (National Fire Protection Association) | <ul style="list-style-type: none"> ● Health=0, 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 |
| 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. ● Avoid contact with skin, eyes and clothing |
| 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. ● Avoid contact with skin and eyes. Take necessary personal protective precautions 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● 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">● In case of insufficient ventilation, wear suitable respiratory equipment |
| 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 |
| Environmental exposure controls | <ul style="list-style-type: none">● No information available |

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

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

Important Health Safety and Environmental Information

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|-------------------------|---------------------------|
| Boiling Point | >266°C / >510°F |
| Pour Point | 3°C / 37°F |
| Vapor Pressure | No information available. |
| Density | 7.5 lbs/gallon |
| Vapour density | No information available. |
| Water solubility | Insoluble. |
| Specific Gravity | 0.90. |

10. STABILITY AND REACTIVITY

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| Stability | <ul style="list-style-type: none">● Stable under normal conditions● Polymerization does not occur |
| Conditions to avoid | <ul style="list-style-type: none">● Heat, flames and sparks● Strong oxidizing agents |
| Materials to avoid | <ul style="list-style-type: none">● Incompatible with strong oxidizers, such as hydrogen peroxide, bromine, and chromic acid |
| Hazardous decomposition products | <ul style="list-style-type: none">● When burned :carbon dioxide, carbon monoxide, hydrocarbons |
| Polymerization | <ul style="list-style-type: none">● No information available |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Product Information

There is no data to indicate that this product is carcinogenic; however, the Heavy Resins component shares a CAS number with other substances, "extracts of steam-refined and air-refined bitumens," that have been classified as possibly carcinogenic to humans (Group2B) by the International Agency for Research on Cancer (IARC). However, the heavy resins used in this product are neither steam nor air refined; instead they fall in the IARC class, Bitumens-not classifiable as to their carcinogenicity (Group 3). Furthermore, manufacturer's product test data on the heavy resins are below the recognized levels that indicate carcinogenicity or mutagenicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component Information

Product Information

Aquatic toxicity No information available.

Other information:

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 Not regulated unless shipped at or above 100C/212F, in containers over 118.9 gallons capacity.

UN-No UN3257

Proper shipping name Elevated Temperature Liquid, N.O.S.

Hazard Class 9

Packing group III

15. REGULATORY INFORMATION

U.S. Inventories

| CAS | Chemical Name | % Weight | TSCA* |
|------------|--|----------|---------|
| T/S | Resins | 60-70 | Present |
| 64742-46-7 | Petroleum distillates, hydrotreated middle | 30-40 | 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* |
|------------|--|----------|---------------|---------------|--------------|-------|---|-------------------|---------|
| T/S | Resins | 60-70 | Present | T/S | KE-019 54 | T/S | Present | Present | Present |
| 64742-46-7 | Petroleum distillates, hydrotreated middle | 30-40 | Present | 265-148 -2 | KE-125 54 | N/A | 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

Prepared By Monica C. Mathers, Product Safety Steward Leader.

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