



Safety Data Sheet

Prepared according to GHS

1. Identification

Product Name	Kendex® MNE
Product Code	4577
Recommended Use	Medium Neutral Extract
Company	American Refining Group, Inc. 77 North Kendall Avenue Bradford, PA 16701 www.amref.com msds@amref.com
Emergency Telephone Number(s)	Chemtrec 1-800-424-9300 (24 HRS) ARG: 814-368-1297 (24 HRS)

2. Hazards Identification

GHS Classification	Eye Damage/Irritation Category 2B Skin Corrosion/Irritation Category 2 Carcinogenicity Category 2 Germ Cell Mutagenicity Category 2 Specific Target Organ Toxicity (repeat exposure) Category 2
Signal Word	WARNING!
Hazard Statements	Causes eye irritation Causes skin irritation Suspected of causing cancer Suspected of causing genetic defects May cause damage to organs through prolonged/repeated exposure

GHS Pictogram



Precautionary Statements

Wash thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Seek medical advice/attention.
If on skin: wash with plenty of soap and water.
If skin irritation occurs: Seek medical advice/attention.
Take off contaminated clothing and wash before reuse.
Obtain special instructions before use.

2. Hazards Identification

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/clothing/eye protection/face protection

Store locked up.

Dispose of contents/containers in accordance with local/national regulations.

Do not breathe dust/fume/gas/mist/vapors/spray.

3. Composition / Information on Ingredients

CAS No.	Component	Common Name	Percent
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	Medium Neutral Extract	100%

4. First Aid Measures

Eyes Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention immediately.

Skin In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Seek medical attention immediately.

Inhalation Move exposed person to fresh air. Avoid Breathing fumes/vapors/mist/spray.

Ingestion If conscious, rinse out mouth with water. Seek medical attention immediately.

Symptoms(Acute and delayed) Causes eye irritation
Causes skin irritation
Suspected of causing cancer
Suspected of causing genetic defects
May cause damage to organs through prolonged/repeated exposure

Note to Physicians No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire Fighting Measures

Suitable Extinguishing Media

Use dry chemical, CO₂, water spray (FOG) or foam

Unsuitable Extinguishing Media

Avoid solid water stream as it may scatter and spread fire.

Specific Hazards Arising from Chemical

Elevated temperatures can lead to the formation of irritating vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide.

Protective Equipment and Precautions for Firefighters

5. Fire Fighting Measures

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Environmental Precautions

Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment

Stop leak if without risk.

Methods for Cleanup

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled container

7. Handling and Storage

Handling Procedures

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist.

Shipping and Storing Procedures

Keep container tightly closed in a dry place. Keep away from heat. Protect from light. Keep in properly labeled containers. Keep out of the reach of children.

Incompatibilities:

Oxidizing Agents

8. Exposure Controls / Personal Protection

Component Exposure Limits

Oil Mist (mineral)

ACGIH TLV:	TWA:	N/A ppm	TWA:	5 mg/m ³	STEL:	N/A ppm	STEL:	10 mg/m ³
OSHA PEL:	TWA:	N/A ppm	TWA:	5 mg/m ³	STEL:	N/A ppm	STEL:	N/A mg/m ³
NIOSH REL:	TWA:	N/A ppm	TWA:	5 mg/m ³	STEL:	N/A ppm	STEL:	10 mg/m ³

N/A signifies not available

*Product has 0 kPa pressure at 68°F and is not expected to present any inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. Oil mist, if generated, is considered hazardous according to the OSHA Hazard Communication Standard.

Engineering Controls

Material should be handled in enclosed vessels and equipment only if aerosolized and/or misted. Use only in adequate ventilation if this occurs. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Eye/Face Protection

Chemical goggles or face shield.

Skin Protection

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times. Coveralls, apron, and boots as

8. Exposure Controls / Personal Protection

Respiratory Protection

necessary to minimize contact.
Respirator may only be needed if product is aerosolized and/or misted. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels.

General Hygiene

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

9. Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Please see the Product Specification Sheet for further information.

Appearance	Opaque	Flammability	Not Available
Physical State	Liquid	Upper/Lower Flammability Limits	Not Available
Odor	Petroleum Oil	Vapor Pressure	Not Available
Odor Threshold	Not Available	Vapor Density	Not Available
pH	Not Available	Relative Density (lbs/gal)	8.0
Melting/Freezing Point (°F)	Not Available	Water Soluble	No
Initial Boiling Point (°F)	Not Available	Partition Coefficient: n-octanol/water	4.4 - >6
Boiling Range (°F)	>625	Auto-ignition Temperature (°F)	Not Available
Flash Point (°F)	420	Decomposition Temperature (°F)	Not Available
Evaporation Rate	Not Available	Viscosity (40 °C mm²/s)	92.20

10. Chemical Stability & Reactivity Information

Reactivity	Polymerization will not occur
Chemical Stability	Stable under normal conditions
Hazardous Reactions	None, under normal processing.
Conditions to Avoid	High temperatures, flames, sparks
Incompatibility	Strong acids and oxidizing materials
Hazardous Decomposition Products	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11. Toxicological Information

Acute Exposure

Respiratory Irritation

Not expected to cause irritation to respiratory tract.

Eye Irritation

May cause eye irritation.

11. Toxicological Information

Skin Irritation	Causes slight skin irritation. May cause slight redness. Varies depending upon amount of exposure.
Sensitization	Not expected to cause skin or respiratory sensitization.
Aspiration Hazards	Not expected to cause an aspiration hazard.
Chronic Exposure	
Target Organ Effects	Repeated-dose dermal studies in rats using similar substances revealed chronic internal organ effects.
Carcinogenicity	This product contains substances that are classified as carcinogens by OSHA, ACGIH, and IARC.
Mutagenicity	Product found to elicit marginal positive results in the ames mutagenicity assay based on data from components and similar materials.
Reproductive Toxicity	No data available to indicate either product or components present at greater than .1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than .1% may cause birth defects.

Analysis – LD50 / LC50

Inhalation LC50 Rat	Not available	mg/L
Oral LD50 Rat	>5000	mg/kg
Dermal LD50 Rabbit	>2000	mg/kg

12. Ecological Information

Component Analysis - Ecotoxicity – Aquatic Life

Duration/Test/Species	Concentration/Conditions
96 Hr LL50; WAF Aquatic Vertebrates	>1000 mg/L
21 Day EL50; WAF <i>Daphnia magna</i>	>1000 mg/L
72 hr EL-50 <i>Daphnia magna</i>	>50% WAF mg/L

Persistence & Degradability	Inherently degraded
Bioaccumulation Potential	Not Available
Soil Mobility	Not Available
Other Adverse Effects	Not Available

13. Disposal Considerations

Disposal Instructions

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14. Transportation Information

14. Transportation Information

Emergency Response Guide No. 171		<i>North American Emergency Response Guide Book</i>		
UN Number	Shipping Name (technical name)	Hazard Class	Packing Group	Placards/Label
U.S. DOT	Not Regulated			
IATA	Not Regulated			
IMDG	Not Regulated			

15. Regulatory Information

SARA Extremely Hazardous Substances (Sections 302 & 304)	This product does not contain greater than 1% of any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.								
SARA Section 313	This product does not contain greater than 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.								
SARA Section 311 & 312 Classifications	<table border="0"> <tr> <td>Acute Hazard</td> <td>Yes</td> </tr> <tr> <td>Chronic Hazard</td> <td>Yes</td> </tr> <tr> <td>Fire Hazard</td> <td>No</td> </tr> <tr> <td>Reactivity Hazard</td> <td>No</td> </tr> </table>	Acute Hazard	Yes	Chronic Hazard	Yes	Fire Hazard	No	Reactivity Hazard	No
Acute Hazard	Yes								
Chronic Hazard	Yes								
Fire Hazard	No								
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CERCLA	This product does not contain any “hazardous substances” listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.								
California Prop 65	This product is not routinely tested to determine chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components.								

Global Chemical Inventories

Inventory	
US TSCA	Present
EU	Present
Japan	Not available
Australia	Present
New Zealand	Present
Canada	Present
Switzerland	Not available
Korea	Not available
Philippines	Present

China	Present
Taiwan	Present

16. Other Information

US NFPA Ratings

Health	Fire	Reactivity
1	1	0

HMIS Ratings

Health	Fire	Physical Hazards
1	1	0

Revision Date

27 March 2015

Revision Reason

New SDS

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS