

Safety Data Sheet

Prepared according to GHS

1. Identification

Product Name Kendex® 0898

Product Code 4618

Recommended Use Used as a viscosity builder in metalworking fluids and straight oils.

Company American Refining Group, Inc.

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msds@amref.com

Emergency Telephone Chemtrec 1-800-424-9300 (24 HRS) **Number(s)** ARG: 814-368-1297 (24 HRS)

2. Hazards Identification

GHS Classification This product is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Signal WordNot applicableHazard StatementsNot applicableOther HazardsNot applicableGHS PictogramNot applicablePrecautionary StatementsNot applicable

3. Composition / Information on Ingredients

CAS No. Component Common Name Percent

This Product does not contain ingredients that are hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. First Aid Measures

Eyes Check for and remove any contact lenses. Flush eyes with plenty of

water, occasionally lifting the upper and lower eyelids. Get medical

attention if irritation develops.

Skin In case of contact, flush skin with plenty of soap and water while

removing contaminated clothing and shoes. Wash clothing before

reuse. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. Get medical attention if irritation

develops.

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	4. First Aid Measures		
Ingestion	First aid is normally not required. Get med	ical attention if	
	discomfort develops.		
Note to Physicians	No specific treatment. Treat symptomatically.		

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 fumes and vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide.

Protective Equipment and Precautions for Firefighters

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

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. Use only with adequate ventilation. Use non-sparking tools.

Shipping and Storing Procedures

Keep container tightly closed in a dry and well-ventilated 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*

When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

*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.

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8. Exposure Controls / Personal Protection

Engineering ControlsMaterial 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 Safety glasses

Skin Protection Normal work gloves are appropriate

Respiratory ProtectionNo special requirements under ordinary conditions of use and with

adequate ventilation.

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	Not Available
		Flammability Limits	
Odor	Petroleum Oil	Vapor Pressure	Not Available
Odor Threshold	Not Available	Vapor Density	Not Available
pH	Not Available	Relative Density (lbs/gal)	7.74
Melting/Freezing Point	Not Available	Water Soluble	No
(°F)			
Initial Boiling Point (F)	Not Available	Partition Coefficient: n-	>10
		octanol/water	
Boiling Range (%)	Not Available	Auto-ignition	Not Available
		Temperature (%)	
Flash Point (°F)	600	Decomposition	Not Available
		Temperature (°F)	
Evaporation Rate	Not Available	Viscosity (40 °C mm²/s)	3304
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10. Chemical Stability & Reactivity Information

ReactivityPolymerization will not occurChemical StabilityStable under normal conditionsHazardous ReactionsNone, under normal processing.Conditions to AvoidHigh temperatures, flames, sparksIncompatibilityStrong acids and oxidizing materials

Hazardous Decomposition

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products

Products of incomplete combustion.

11. Toxicological Information

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11. Toxicological Information

Acute Exposure

Respiratory Irritation Not Expected to pose respiratory irritation.

Eye Irritation Not expected to cause eye irritation. **Skin Irritation** Not expected to cause skin irritation.

Sensitization Not expected to cause skin or respiratory sensitization.

Chronic Exposure

Target Organ Effects No data available to indicate product or components at greater than 1% are

chronic health hazards.

Carcinogenicity This product contains mineral oils which are considered to be severely refined

and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP

346 test.

Mutagenicity No data available to indicate product or any components present at greater than

.1% are mutagenic or genotoxic.

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
 23.6 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 >1000 mg/L

Aquatic Vertebrates

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

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	14. Transportation Information				
Emergency Response Guide 171		171	North American Emergency Response Guide		
No.			Book		
	UN Number	Shipping Name (technical	Hazard Class	Packing	Placard
		name)		Group	
U.S. DOT		Not Regulated			
IMDG		Not Regulated			
IATA		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.

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

Acute Hazard No. Chronic Hazard No. Fire Hazard No Reactivity Hazard No

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

SARA Section 313

This product does not contain 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	Present
Philippines	Present

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	China	Present	
	Taiwan	Not available	

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16.	()ther	Informa	ation

US NFPA Ratings

Health	Fire	Reactivity
0	1	0

HMIS Ratings

111112 1100011182		
Health	Fire	Physical Hazards
0	1	0

Revision Date 14 April 2015 **Revision Reason** New SDS

The information provided on this SDS 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