

Safety Data Sheet

Prepared according to GHS

1. Identification				
Product Name	Kendex® 0842			
Product Code	4313			
Recommended Use	Asphalt Modifier. Metal working applications.			
Company	American Refining Group, Inc. 77 North Kendall Avenue Bradford, PA 16701			
	www.amref.com			
	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	Skin Corrosion/Irritation Category 2			
Signal Word	WARNING!			
Hazard Statements	Causes Skin Irritation			
GHS Pictogram				
Precautionary Statements	Wash Thoroughly after handling.			
-	Wear protective gloves			
	If on skin: wash with plenty of soap and water.			
	If skin irritation occurs: get medical attention/advice.			
	Take off contaminated clothing and was before reuse.			
	3. Composition / Information on Ingredients			

CAS No.	Component	Common Name	Percent
64741-45-3	Residues (petroleum), atm. Tower	Cylinder Stock	100%

4. First Aid Measures

Eyes

Check for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation develops..

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	4. First Aid Measures		
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. Get medical attention if irritation develops		
Inhalation	Move exposed person to fresh air. develops.	1	
Ingestion	DO NOT INDUCE VOMITING. S immediately.	Seek medical attention	
Symptoms(Acute and delayed)	May cause minimal eye irritation, irritation.	minimal to moderate skin	
Note to Physicians	No specific treatment. Treat symp treatment specialist immediately if 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 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

A vapor suppressing foam may be used to reduce vapors. 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.

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Incompatibilities:

Oxidizing Agents

8. Exposure Controls / Personal Protection								
Component Exposure	Component Exposure Limits							
Oil Mist (Mineral	l)							
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 availa	able			-				-

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 necessary to minimize contact.
Respiratory Protection	No special requirements under ordinary use and with adequate ventilation. Respiratory may only be needed if product is aerosolized and/or misted.
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.

	I J	the I routier specification sheet	
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)	7.53
Melting/Freezing Point	Not Available	Water Soluble	No
(°F)			
Initial Boiling Point (°F)	>625	Partition Coefficient: n-	1.7-25
		octanol/water	
Boiling Range (°F)	Not Available	Auto-ignition	Not Available
		Temperature (°F)	
Flash Point (°F)	590	Decomposition	Not Available

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1010		Chemical Properties	10501011	
		Temperature (°F)		
Evaporation Rate	Not Available	Viscosity @ 40°C, cSt		
	10. Chemical Stability	v & Reactivity Information		
Doootivity	Delumerization	will not occur		
Reactivity Chemical Stability	Polymerization Stable under no			
Hazardous Reactions				
Conditions to Avoid	None, under nor High temperatur	res, flames, sparks		
Incompatibility		d oxidizing materials	debudge and other products	
Hazardous Decomposition Products	of incomplete c	monoxide, carbon dioxide, al	idenydes and other products	
riouucis	of incomplete of	ombustion.		
	11. Toxicolo	gical Information		
Acute Exposure		licate product or components		
		rimary route of exposure is d		
Respiratory Irritation		ay only arise if product is us		
		l is misted or if vapors are ge		
	exposure may cause irritation of mucous membranes and upper res			
	tract.			
Eye Irritation	Minimal eye irritation. Vapors formed from heating may cause eye irritation			
Skin Irritation	Causes minimal to mod	Causes minimal to moderate skin irritation. Redness may occur, varies with		
	exposure.			
Sensitization	This product is not a se	nsitizer.		
Chronic Exposure				
Target Organ Effects				
Carcinogenicity	This product contains n	nineral oils which are conside	ered to be severely refined	
- •	1	e carcinogenic under IARC.	•	
		onstrated to have a Mutageni		
	Modified Ames test.	C	- •	
Mutagenicity	This product contains n	nineral oils which are conside	ered to be severely refined	
	and not considered to be mutagenic under IARC. All of the oils in this			
	product have been demonstrated to have a Mutagenicity Index of <1 by the			
	Modified Ames test.	_	-	
Reproductive Toxicity	No data available to inc	licate either product or comp	onents present at greater	
	than .1% that may caus	e reproductive toxicity.		
Teratogenicity		licate product or any compon	ents contained at greater	
	than .1% may cause bir			
Analysis – LD50 / LC50				
Inhalatio	on LC50 Rat	Not available mg	g/L 4h	

Inhalation LC50 RatNot availablemg/L 4hOral LD50 Rat>5000mg/kgDermal LD50 Rabbit>2000mg/kg

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	12. Ecological Information					
Component Analysis- Ecotoxic	ity – Aquatic I	Life				
Duration/Tes	t/Species	Concentration/Conditions				
90	6 hr LL50	>1000	mg/L			
Aquatic V	ertebrates		C			
96	6 hr EL50	>220; <460	mg/L			
	Algae		C			
7 I	Day EL50	>1000	mg/L			
Daphn	ia magna		-			
Persistence & Degradability	Inherently bi	odegradable				
Bioaccumulation Potential	Not Availabl	e				
Soil Mobility Other Adverse Effects	The constituents with heavier molecular weights may float or sink, when in contact with water, depending on density relations. These constituents will eventually become incorporated with the soil and may participate, at least partially, with microbes in biodegradation. Data for heavy fuel oils showed slight or no acute toxicity to fish when tested					
		AFs or OWDs				

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				
Emergency	Response Guide	No. 171	North A Guide E	merican Emerg Book	ency Response
	UN Number	Shipping Name (technical name)	Hazard	Packing	Placard/
U.S. DOT		Not Regulated	Class	Group	Label
IMDG	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Petroleum Distillate)	9	III	
ΙΑΤΑ	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Petroleum Distillate)	9	III	
STCC		2911425			*

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15.	Regulatory	Information	n
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SARA Extremely Hazardous Substances (Sections 302 & 304) SARA Section 313	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 Physical Hazards No Health Hazards Yes Skin Irritant		
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 65This product is not routinely tested to determine chemicals known by the State
of California to cause cancer and/or birth defects. Moreover, we do not
routinely analyze its products for impurities which may be such chemicals.

Global Chemical Inventories

Global Chemical Inventories		
Inventory		
US TSCA	Present	
EU	Present	
Japan	Not available	
Australia	Present	
New Zealand	Not available	
Canada	Present	
Switzerland	Not available	
Korea	Present	
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

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16. Other Information

Revision Reason

Section 3

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