

Safety Data Sheet

Prepared according to GHS

Product Code 431	ndex® 0840 2		
	2		
Recommended Use Asr	4312		
Aspendicular Aspen	ohalt Modifier. Metal working applications.		
Company Am	erican Refining Group, Inc.		
	North Kendall Avenue		
	dford, PA 16701		
	w.amref.com		
	ls@amref.com		
	emtrec 1-800-424-9300 (24 HRS)		
Number(s) AR	G: 814-368-1297 (24 HRS)		
2	2. Hazards Identification		
GHS Classification SI	kin Irritation Category 2		
Signal Word W	/ARNING!		
Hazard Statements C	auses Skin Irritation		
GHS Pictogram			
Precautionary Statements W	ash Thoroughly after handling.		
W	Vear protective gloves		
If	on skin: wash with plenty of soap and water.		
If	skin irritation occurs: get medical attention/advice.		
Т	ake off contaminated clothing and was before reuse.		

3. Composition / Information on Ingredie	ents
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CAS No.	Component	Common Name	Percent
64741-45-3	Residues (petroleum), atm. Tower	Bright Stock	20%
64742-16-1	Petroleum Resins	Gas Oils	20%
64742-01-4	Residual oils, solvent-refined	Finished Bright Stock	60%

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

Kendex [®] 0840	Revision Date: 1/21/2021	American Refining Group, Inc.			
4312	Revision #:1 Page 2				
4. First Aid Measures					
eyelids. Get medical attention immediately.					
Skin	In case of contact, immediately flush skin with plenty of soap and				
	water for at least 15 minutes while	e 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. Get medical attention if irritation				
	develops.				
Ingestion	DO NOT INDUCE VOMITING.				
Symptoms(Acute and delayed)	May cause minimal eye irritation, minimal to moderate skin				
	irritation.				
Note to Physicians	No specific treatment. Treat symp treatment specialist immediately in 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

7. Handling and Storage

containers. Keep out of the reach of children.

Incompatibilities:

Oxidizing Agents

8. Exposure Controls / Personal Protection								
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 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.

Zurd Communication Standard.	
Material should be handled in enclosed vessels and equipment only i 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 contaminat below any recommended or statutory limits.	
Chemical goggles or face shield.	
Chemical resistant, impervious gloves complying with an approved standard should be worn at all times. Coveralls, apron, and boots as necessary to minimize contact.	
No special requirements under ordinary use and with adequate ventilation. Respiratory may only be needed if product is aerosolized and/or misted.	
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	
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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)	7.53
Melting/Freezing Point	Not Available	Water Soluble	No
(°F)			
Initial Boiling Point (°F)	>625	Partition Coefficient: n-	Not Available
		octanol/water	

Kendex [®] 0840	Revision Date: 1/21/2021		American Refining Group, Inc.			
4312	Revision #:1		Page 4 of 7			
	9. Physical and Chemical Properties					
Boiling Range (°F)	Not Available	Auto-ignition	Not Available			
		Temperature (°F)				
Flash Point (°F)	595	Decomposition	Not Available			
		Temperature (°F)				
Evaporation Rate	Not Available	Viscosity @ 40°C, cSt	795			
-						

10. Chemical Stability & Reactivity Information

Reactivity Chemical Stability Hazardous Reactions Conditions to Avoid Incompatibility Hazardous Decomposition Products	Polymerization will not occur Stable under normal conditions None, under normal processing. High temperatures, flames, sparks Strong acids and oxidizing materials Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
	11. Toxicological Information
Acute Exposure	No data available to indicate product or components at greater than 1% are acute health hazards. Primary route of exposure is dermal.
Respiratory Irritation	An inhalation hazard may only arise if product is used in aerosol conditions or if heated up. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and upper respiratory tract.
Eye Irritation Skin Irritation	Minimal eye irritation. Vapors formed from heating may cause eye irritation Cause minimal to moderate skin irritation. Redness may occur, varies with exposure.
Sensitization	This product is not a sensitizer.
Chronic Exposure Target Organ Effects	
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 have a Mutagenicity Index of <1 by the Modified Ames test.
Mutagenicity	This product contains mineral oils which are considered 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 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.
Applysis ID50/IC50	

Analysis – LD50 / LC50

Issue Date: 21 January 2021

Kendex[®] 0840 4312

Inhalation LC50 Rat Oral LD50 Rat Dermal LD50 Rabbit

12. Ecological Information

Component Analysis - 64741-43	5-3 - Ecotoxici	tv – Aquatic Life	
Duration/Test		Concentration/Conditions	
	hr LL50	>1000	mg/L
Aquatic Ve	rtebrates		C
	hr EL50	>220; <460	mg/L
	Algae		C
7 D	ay EL50	>1000	mg/L
	a magna		C
Component Analysis - 8052-42-	4 - Ecotoxicity	v – Aquatic Life	
Duration/Test/Species		Concentration/Conditions	
96 Hr LL50; WAF		>1000	mg/L
Aquatic Vertebrates			-
Component Analysis - 64742-0	l-4 - Ecotoxici	ty – Aquatic Life	
Duration/Test	t/Species	Concentration/Conditions	
96 hr LL50		>1000	mg/L
Oncorhyncus mykiss			
	hr EL50	>1000	mg/L
Scenedesmus sul	ospicatus		
21 D	ay WAF	>50%	mg/L
Daphni	a magna		
Persistence & Degradability	Inherently bio	odegradable	
Bioaccumulation Potential	Not Available	0	
Soil Mobility	The constitue	ents with heavier molecular weigh	nts may float or sink, when in
·	contact with	water, depending on density relat	ions. These constituents will
	eventually be	come incorporated with the soil a	and may participate, at least
	partially, with	n microbes in biodegradation.	
Other Adverse Effects	1 .	y fuel oils showed slight or no ac	cute toxicity to fish when tested
	as either WA		-

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 American Emergency Response

tested

Issue Date: 21 January 2021

>22 mg/L 4h >5000 mg/kg mg/kg >2000

Kendex® 0840 4312		Revision Date: 1/21/2021 Revision #:1	American Refining Group, Inc. Page 6 of 7	
_	portation Infor			
1 4. 11 ans			e Book	
U.S. DOT	UN Number	Shipping Name (technical name) Hazard Not Regulated		
IATA		Not Regulated		
IMDG		Not Regulated		
15. Regula	atory Informati)n		
	nely Hazardous Sections 302 & 3	04) hazardous substances" listed pursu	ant to Title III of the Superfund Act of 1986 (SARA) Section 302 or	
SARA Section	n 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	n 311 & 312 Cla			
		Health Hazard Yes Skin Ir	rritation 2	
CERCLA		This product does not contain any "hazardo Comprehensive Environmental Response, 6 1980 (CERCLA) in 40 CFR Part 302, Tabl	Compensation and Liability Act of	

	1966 (CERCERT) III 40 CI R I dit 302, 100C 302.4.
California Prop 65	This 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

Present
Present
Not available
Present
Not available
Present
Not available
Present
Present
Present

Kendex [®] 0840	Revision Date: 1/21/2021	American Refining Group, Inc.
4312	Revision #:1	Page 7 of 7
Taiwan	Not available	
16. Other Information		
US NFPA Ratings		
Health	Fire	Reactivity
1	1	0
HMIS Ratings		
Health	Fire	Physical Hazards
1	1	0
Revision Date	21 January 2021	

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Revision Reason	Section 2 & 15

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