

Safety Data Sheet

Prepared according to GHS

Product NameKensol K-1Product Code4112Recommended UseKerosene for heatersCompanyAmerican Refining Group, Inc. 77 North Kendall Avenue Bradford, PA 16701 www.amref.com	
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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 Flammable Liquids Category 3	
Aspiration Hazard Category 1	
Eye Irritation Category 2B	
Skin Irritation Category 2	
Specific Target Organ Toxicity-Single Exposu	re (narcotic effects) –
Category 3	ne (narcotte erreets)
Static Accumulating Liquid	
Signal Word DANGER!	
Hazard Statements Flammable liquid and vapor	
May be fatal if swallowed and enters airways.	
Causes eye irritation	
Causes skin Irritation	
May cause respiratory irritation; or May cause	drowsiness or
dizziness	
Other Hazard Information Static accumulating liquid can become electro	statically charged even
in bonded and grounded equipment	stationity charges of the
Sparks may ignite liquid and vapor may cause	flash fire.
Liquid conductivity is <100 pS/m (picosiemar	
GHS Pictogram	
Precautionary StatementsDo not breathe mist or vapors	
Use only outdoors or in a well-ventilated ar	
If inhaled: Remove person to fresh air and	keep comfortable for
breathing.	
Call a poison center/doctor if you feel unwe	II.

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	2. Hazards Identification	
	If swallowed: immediately call a po	ison center or doctor.
	Do NOT induce vomiting.	
	Store Locked up	
	Store in a well-ventilated place.	
	Wear protective gloves/clothing/ey	e protection/face protection
	Keep away from heat/sparks/open	flames/hot surfaces. –No
	smoking	
	Keep container tightly closed	
	Ground/bond container and receiv	
	may be insufficient to remove stati	· ·
	Use explosion-proof electrical/vent	tilating/lighting equipment.
	Use only non-sparking tools	
	If on skin: take of immediately all c	ontaminated clothing. Rinse
	skin with water/shower.	
	Store in a well-ventilated place. Ke	eep cool.
	Wash thoroughly after handling.	
	If in eyes: rinse cautiously with wate contact lenses, if present and easy to	
	If eye irritation persists: get medica	-
	If skin irritation occurs: Get medic	
	Take off contaminated clothing an	
	Dispose of contents in accordance	with local/regional/national/
	international regulations	

3.	Composition /	'Information o	n Ingredients
•••			

CAS No.	Component	Common Name	Percent
8052-41-3	Stoddard solvent	Mineral Spirits	40-50%
64742-47-8	Petroleum Distillates, Hydrotreated Light	Hydrotreated Finished Oil	40-50%

Hazardous Constituents contained in complex substances

CAS No.	Component	Common Name	Percent
111-84-2	Nonane	Nonane	0.5-4.0
25551-13-7	Trimethyl Benzene (mixed Isomers)	Hemellitene,	0.25-2.5
		Pseudocumene, mesitylene	

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. Get medical attention immediately.	
Skin	In case of contact, immediately flush skin with plenty of water for at	
	least 15 minutes while removing contaminated clothing and shoes.	
	Wash clothing before reuse. Clean shoes thoroughly before reuse.	
	Get medical attention immediately.	
Inhalation	Move exposed person to fresh air.	

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	4. First Aid Measures		
Ingestion	DO NOT INDUCE VOMITING. If conscious, rinse out mouth with		
	water.		
Symptoms(Acute and delayed)	Exposure to high concentrations of vapors may cause irritation to the eyes, nose and throat, nausea, and dizziness.		
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.

This product is a static accumulating liquid. Static accumulating liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminates. Restrict flow velocity to avoid build-up of static charge. Refer to NFPA 77, API 2003, and CENELEC CLC/TR 50404 for further guidance.

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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Use absorbent pads or earthen dams to contain.

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

			7. Handl	ing and Stora	ge			
Shipping and Storing	Procedu				0			
Store in accorda	ance with	local regula	tions. Stor	re in a segregat	ed and ap	proved area	. Keep in	the
original contain	er protec	ted from dire	ect sunlight	t in a dry, cool	and well-	-ventilated a	rea, away	from
incompatible m	-		-	•			•	
open flame or a						•		T .
To avoid fire or								
containers and e	-	1			•	0 0		0
be hazardous.In			siening in	atoman Empty	containe	is that i claim	producer	estude may
Oxidizing Agents	icomputi	omittes.						
Oktaizing rigents								
		8. Expos	sure Contr	ols / Personal	Protecti	on		
Component Exposure								
Stoddard Solvent								
ACGIH TLV:	TWA:	100 ppm	TWA:	N/A mg/m ³	STEL:	N/A ppm	STEL:	N/A mg/m ³
OSHA PEL:	TWA:	500 ppm	TWA	2900	STEL:	N/A ppm	STEL:	N/A mg/m ³
				mg/m ³				
NIOSH REL:	TWA:	N/A ppm	TWA	350 mg/m^3	STEL:	N/A ppm	STEL:	N/A mg/m ³
NIOSH Ceiling:	18	$00 \text{ mg/m}^3 (1)$	5 minutes)	C				C
-		-						
N								
Nonane		200		N T/A / 3	OTEL		OTTEL	
ACGIH TLV:	TWA:	200 ppm	TWA:	N/A mg/m ³	STEL:	N/A ppm	STEL:	N/A mg/m ²
Trimethyl Benzer	ne (all iso	omers)						
ACGIH TLV:		25 ppm	TWA:	N/A mg/m^3	STEL:	N/A ppm	STEL:	N/A mg/m ³
N/A signifies not availa		11		U		11		U
8								
Engineering Controls		This	product is	a static accum	ulating lie	uuid Ground	/bond cor	tainer and
Engineering Controls				se alone may b				
				be handled in				
								•
			1	tilation. Use pr		,		
			-	ering controls t	-	-		ome
				elow any recon		or statutory	limits.	
Eye/Face Protection				les and face shi		1 •	•.1	1
Skin Protection				ant, imperviou	-			
				be worn at all		coveralls, apr	on, and be	oots as
			•	nimize contact				
Respiratory Protection	n			fitted, air-purif				
		-	-	ndard if a risk				-
		-		ction must be b	ased on k	nown or ant	icipated e	xposure
		level						
General Hygiene		Wash	n hands, fo	rearms and fac	e thoroug	shly after har	ndling che	mical
		produ	ucts, before	e eating, smoki	ng and us	sing the lavat	tory and a	t the end of
		the w	orking per	iod. Appropri	ate techni	iques should	be used to	o remove
		poter	ntially cont	aminated cloth	ing.			
		*	•		-			

9. Physical and Chemical Properties

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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		Flammability	Not Available
Physical State	Liquid	Upper/Lower	Not Available
		Flammability Limits	
Odor	Petroleum Solvent	Vapor Pressure (mm Hg	Not Available
		at 20 °C)	
Odor Threshold	Not Available	Vapor Density	Not Available
pH	Not Available	Relative Density (lbs/gal)	6.56
Melting/Freezing Point	Not Available	Water Soluble	No
(°F)			
Initial Boiling Point (F)	>300	Partition Coefficient: n-	Not Available
		octanol/water	
Boiling Range (F)	300-572	Auto-ignition	Not Available
		Temperature (°F)	
Flash Point (F)	100.4	Decomposition	Not Available
		Temperature (°F)	
Evaporation Rate	Not Available	Viscosity (40 °C mm ² /s)	1.5
_			

10. Chemical Stability & Reactivity Information

Reactivity Chemical Stability	Polymerization will not occur Stable under normal conditions. If heated, product's static accumulation will rise and could cause flash fire.
Hazardous Reactions	None, under normal processing.
Conditions to Avoid	High temperatures, flames, sparks
Incompatibility	Strong acids and oxidizing materials
Hazardous Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products
Products	of incomplete combustion.

11. Toxicological Information

Acute Exposure 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 Sensitization Aspiration Hazard	Causes mild eye irritation that is reversible with proper care. Causes mild skin irritation that is reversible with proper care. Not expected to cause skin or respiratory sensitization. If swallowed can be aspirated into lungs and cause chemical pneumonia, varying degrees of pulmonary injury or death. If swallowed, do NOT induce vomiting.
Chronic Exposure Target Organ Effects	Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia,

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	death.	
	Prolonged or repeated direct exposure to the ski	n results in symptoms of
	irritation and redness, dermatitis or oil acne.	
Carcinogenicity	No data available to indicate product or any cor .1% are carcinogenic.	nponents present at greater than
Mutagenicity	No data available to indicate product or any cor .1% are mutagenic or genotoxic.	nponents present at greater than
Reproductive Toxicity	No data available to indicate either product or c	omponents present at greater
-	than .1% that may cause reproductive toxicity.	
Teratogenicity	No data available to indicate product or any cor	nponents contained at greater
	than .1% may cause birth defects.	

Analysis – LD50 / LC50		
Inhalation LC50 Rat	>5	mg/L (4Hr mist)
Oral LD50 Rat	>5000	mg/kg
Dermal LD50 Rabbit	>2000	mg/kg

12. Ecological Information

Component Analysis- Ecotoxicity – Aquatic Life

Duration/Tes	t/Species	Concentration/Conditions	
96	hr LL50	8.2	mg/L
Oncorhynci	ıs mykiss		
48	hr EL50	32	mg/L
Oncorhynci	ıs mykiss		
96	hr EL50	45	mg/L
Scenedesmus sul	bspicatus		
Chronic Survival	NOELR	2.6	mg/L
Aquatic Ve	Aquatic Vertebrates		
Chronic Growth NOELR		2.6	mg/L
Aquatic Vertebrates			
Chronic Survival NOELR		16	mg/L
Daphnia magna			
Chronic Reproduction EL 50 10		mg/L	
Daphnia magna			
Chronic reproduction NOELR 2.6		mg/L	
Daphni	ia magna		
Persistence & Degradability	Inherently biod	legradable	
Bioaccumulation Potential	Not Available	2	
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							
Emergency Response Guide No.		128	North American Emergency Respons Guide Book			mergency Response	
	UN Number	Shippir name)	ng Name (technical	Hazard Cla	ass	Packing Group	Labels/Placard
U.S. DOT Bulk (over 119 gallons)	1223	Kerose	ne	Combustit Liquid		III	1223
U.S. DOT Non-Bulk		Not Re	gulated				Exempt from labeling and placarding unless shipped via air or vessel
STCC		491425	6				
15. Regula	atory Informati	on					
 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 Section 304 as identified in 40 CFR Part 355, Appendix A and B. This product contains the following components in concentrations greater than 0.1% for carcinogenic substances and/or 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: 1,2,4 Trimethylbenzene (CASRN: 95-63-6): 2.7% 				II of the Superfund (SARA) Section 302 or appendix A and B. in concentrations nd/or 1.0% of the of Section 313 of authorization Act of			
SARA Section	n 311 & 312 Cla	assificatio	ons Physical Ha	azards Yes	Fla	mmable Li	iquid
			Health H	azards Yes	Asp Eye Skii	piration Ha e Irritant n Irritant	ulating Liquid uzard et Organ Toxicity
CERCLA	CERCLA This product contains the following components listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4:						
California Pr	California Prop 65NONECalifornia Prop 65This product contains chemical(s) known to the state of California to cause		California to cause				

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
China	Present
Taiwan	Not available

* May be subject to TSCA 12b export notification. Contains Nonane (CASRN: 111-84-2) at 7 %.

16. Other Information

US NFPA Ratings		
Health	Fire	Reactivity
1	2	0

HMIS Ratings

Health	Fire	Physical Hazards
1	2	0

Revision Date

2 November 2016 Sections 14 and 15

Revision Reason

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