

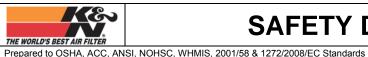
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 3.0

SDS Revision Date: 1/7/2015

		1.	PRODUC	CT & COM	IPANY	IDEN	ITIF	ICA	TIOI	N					
1.1	Product Name:	K&NA	IR FILTE	R OIL											
1.2	Chemical Name:	See ingredie	nts listed in se	ection 3											
1.3	Synonyms:		ed by the manu												
1.4	Trade Names:	K & N Air Filt													
1.5	Product Use:	Automotive L													
1.6	Distributor's Name:	K&N Engine													
1.7	Distributor's Address:		<u> </u>	CA 92502-1329	USA										
1.8	Emergency Phone:			424-9300 /		527-	3887	(CC	N 6:	32715	2)				
1.9	Business Phone / Fax:		3-3333 / +1 (95		11 (100	, 02, 1	555.	(00			· <u> </u>				
	•	, ,													
	T	1		<u>AZARDS</u>											
2.1	Hazard Identification:			as a HAZARD								GOOD	S		
				ion criteria of N L IF SWALLO						Austra	lia.				
		Classification		L IF SWALLO	WED AND	ENIER	(S AII	KWAI	ა.						
			- '	304 – May be fa	ital if swall	owed ar	nd ent	ers ain	wavs						
				(P): P280 – W						n P30	01+P3	310 – I	F	S (
				ly call a POIS											
				N EYES: Rinse											
				and easy to do									-		
		•		iner to an appro							ISDF).			
2.2	Effects of Exposure:		•	swallowed, may	Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea.										
							`								
		Eyes:	,	ansient mild-ey		with sho				th liqui		,		4	
		<u>Skin</u> :	This product	can cause mil	d, transier	with sho nt skin i	irritatio	on with	n shor	th liqui t-term	expos	ure. T	his pr		can cause
		Skin:	This product allergic skin r	can cause mil	ld, transier rashes, we	with sho nt skin i lts, derr	irritatio matitis	on with	n shor n prolo	th liqui t-term nged o	expos r repe	ure. T ated e	his pr xposu	re.	
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SDS Revision Date: 1/7/2015

4. FIRST AID MEASURES 4 1 First Aid: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Ingestion: Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek Skin: prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek Inhalation: immediate medical attention. If breathing stops, perform artificial respiration. 4.2 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 1 **PHYSICAL HAZARDS** 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES This material can burn but will not readily ignite. This material will release vapors when heated Fire & Explosion Hazards above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depending upon the conditions of use, low concentrations of hydrogen sulfide can be released. Extinguishing Methods: 5.2 Dry chemical, foam, carbon dioxide, and water fog. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boilover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies 6. ACCIDENTAL RELEASE MEASURES 6.1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION 7.1 Work & Hygiene Practices: Use normal hygiene practices. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices. Maximum Recommended Shelf-Life: 60 months. 7.3 Special Precautions: Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.



Page 3 of 12 SAFETY DATA SHEET 99-5050 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 3.0 SDS Revision Date: 1/7/2015 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Ventilation & Engineering The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommended occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38 °C) or is agitated. 8.2 Respiratory Protection: Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist pre-filter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134). 8.3 Eye Protection: Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available. 8 4 Hand Protection: Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures. 8.5 Body Protection: Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove oil contaminated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance Red Oily Liquid 9.2 Odor Characteristic Petroleum Odor 9.3 Odor Threshold: NA NA Melting Point/Freezing Point 9.5 NA Initial Boiling Point/Boiling 9.6 > 260 °C (500 °F) 9.7 Flashpoint: > 232 °C (450 °F) Upper/Lower Flammability 9.8 NA 99 Vapor Pressure: NA 9.10 Vapor Density NA 9.11 Relative Density: 0.864 (7.197 lbs/gallon) 9.12 Solubility: Negligible @ 25 °C Partition Coefficient (log Pow): 9.13 NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA 9.16 Viscosity ≥ 7.5 cSt @ 100 °C 9.17 Other Information NA 10. STABILITY & REACTIVITY 10.1 Stability Stable at normal temperatures. 10.2 Hazardous Decomposition Fumes, smoke, carbon monoxide, silicon oxides. Products: 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid Open flames, sparks, high heat, and close proximity to incompatible substances Incompatible Substances: 10.5 Strong oxidizing agents 11. TOXICOLOGICAL INFORMATION 11.1 Routes of Entry: 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product and is presented below: Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Distillates, Petroleum, Solvent-Refined, Heavy Paraffinic - LD₅₀ (oral, rat) > 5000 mg/kg; LD₅₀ (dermal, rabbit) > 2000 mg/kg 11.3 Acute Toxicity: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals.

> Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work

place exposure levels produced no significant toxicological effects



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 3.0 SDS Revision Date: 1/7/2015 11. TOXICOLOGICAL INFORMATION - cont'd 11.4 Chronic Toxicity: In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested. 11.5 Suspected Carcinogen: Carc. Cat. 2 - suspected human carcinogen (Annex I of EU Directive 67/548/EEC). Not listed by OSHA, NTP or ACGIH. 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenic effects in humans. Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce reproductive effects in humans 11.7 Irritancy of Product: See section 2.3 11.8 Biological Exposure Indices: NE 11.9 Physician Recommendations: The viscosity range of the product(s) represented by this MSDS is between 100 and 400 SUS at 100°F. Accordingly, upon ingestion there is a moderate risk of aspiration. Careful gastric lavage or emesis may be considered to evacuate large quantities of material. Subcutaneous or intramuscular injection requires prompt surgical debridement. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl. 12 2 Effects on Plants & Animals: An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products 12.3 Effects on Aquatic Life: Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Dispose of in accordance with federal & provincial hazardous waste laws. 13 2 Special Considerations: If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance. 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 49 CFR (GND): NOT REGULATED 14.1 14.2 IATA (AIR): NOT REGULATED NOT REGULATED 14.3 IMDG (OCN): TDGR (Canadian GND): NOT REGULATED 14.4 ADR/RID (EU): NOT REGULATED 14.5 14.6 SCT (MEXICO): **NOT REGULATED** 14.7 ADGR (AUS): NOT REGULATED 15. REGULATORY INFORMATION SARA Reporting 15.1 This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity NA (RQ) 15.5 Other Federal Requirements: This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects) 15.7 State Regulatory Information: No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).



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		15. REGULATORY I	NFORMATION – cont'd
15.8	Other Requirements:	Distillates (Petroleum), Hydrotreated Hea Harmful: may cause lung damage if swa	re not listed in Annex I of EU Directive 67/548/EEC: avy Paraffinic: Harmful (Xn). Risk Phrases (R): 65 – Illowed. Safety Phrases (S): 53-45 – Avoid exposure – case of accident or if you feel unwell seek medical advice e).
		16. OTHER	INFORMATION
16.1	Other Information:	vomiting. IF IN EYES: Rinse cautiously w	WED AND ENTERS AIRWAYS. SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce ith water for several minutes. Remove contact lenses if present and easy to store in a well-ventilated place. Keep cool. Use only as directed. KEEP OUT
16.2	Terms & Definitions:	See next page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be review Engineering, Inc.'s knowledge, the inforr accuracy, suitability or completeness are r provided. The information contained here	nt to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other ed for applicability to this product. To the best of ShipMate's and K&N mation contained herein is reliable and accurate as of this date; however, not guaranteed and no warranties of any type, either expressed or implied, are ein relates only to the specific product(s). If this product(s) is combined with must be considered. Data may be changed from time to time. Be sure to
16.4	Prepared for:	K&N Engineering, Inc. P.O. Box 1329 Riverside, CA 92502-1329 USA Tel: +1 (800) 858-3333 Fax: +1 (951) 826-4001 E-Mail: tech@knfilters.com http://www.knfilters.com	THE WORLD'S BEST AIR FILTER
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate° Dangerous Goods Training & Consulting



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
С	Ceiling Limit
IDLH	Immediately Dangerous to Life and Health
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

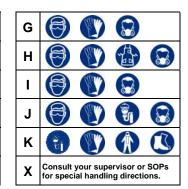
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

HEALTH FLAMMABILITY PHYSICAL HAZARDS PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D		型	
E			
F		THE PARTY OF THE P	





Splash Goggles



Full Face Respirator

Synthetic Apron



Face Shield & Protective Eyewear





Full Face Dust & Vapor Half-Mask Respirator

ð

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

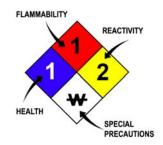
ML	Maximum Limit
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	TY LIMITS IN AIR:
Autoignition	Minimum temperature required to initiate combustion in air with no other
Temperature	source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will
	explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will
	explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
ОХ	Oxidizer
TREFOIL	Radioactive
IREFUIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System	
DOT	U.S. Department of Transportation	
TC	Transport Canada	
EPA	U.S. Environmental Protection Agency	
DSL	Canadian Domestic Substance List	
NDSL	Canadian Non-Domestic Substance List	
PSL	Canadian Priority Substances List	
TSCA	U.S. Toxic Substance Control Act	
EU	European Union (European Union Directive 67/548/EEC)	
WGK	Wassergefährdungsklassen (German Water Hazard Class)	

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(*)	(2)	(3)	\odot	(18)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

II.		N	*		®	X	×
С	E	F	Ν	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\Diamond		1
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment



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.1	Product Name:		PRODUC		. ,	<u></u>	• • • • •			•				
			OWER KL											
2	Chemical Name:		nts listed in sec	tion 3										
3	Synonyms:	_	K & N Air Filter Cleaner™											
4	Trade Names:	K & N Power												
5	Product Use:	Automotive –												
3	Distributor's Name:	K&N Engine												
	Distributor's Address:		29, Riverside, C											
,	Emergency Phone:		EC +1 (800)		+1 (703)	<u>) 527-</u>	·3887	(CC	N 63	32715	5)			
•	Business Phone / Fax:	+1 (800) 858	3-3333 / +1 (95	1) 826-4001										
			2. HA	AZARDS I	DENT	IFIC	ATIC	N						
1	Hazard Identification:	according to WARNING! SWALLOWE Classification Hazard State - Causes eye Precautionar thoroughly a protection. treatment (s advice/attent breathing du	is classified a the classification CAUSES SKINED. MAY CAUSES SKINED. MAY CAUSES SKINED. SKINED	on criteria of NCN IRRITATION SE RESPIRAT Type Irrit. 2B, Act 03 - May be ha 5 - May cause P): P264 - Wa P280 - Wear F ON SKIN: V of this SDS). ake off contarr	OHSC:108 CAUSE ORY IRRI ute Tox. C rmful if sw respirator ash hands protective Vash with P332+P inated clo	88 (2004) SS EYE STATIO Oral 5, Syallower y irritat and ex gloves plenty 2313 - othing a	4) and IRRIT N. STOT Stone Construction. Store Store Construction Stor	ADG (FATION) SE 3 115 - Cd skin active copap and irrital ash be	Code (N. MA auses areas lothing d wate tion of	Austra Y BE skin in with so l/eye per. P3 ccurs: euse.	ritation oap an orotecti 321 - 5 Get 1 P261	MFUL 1. H32 1. d wat 1. ion/far Specif medic - Avo	20 ter ce ffic cal bid	<u>(!)</u>
		comfortable 1 P305+P351+ lenses, if pre medical advi	+P340 - IF IN for breathing. If -P338 - IF IN E esent and easy ce/attention. If 5 - Store locke	HALED: Remo P312 - Call a F YES: Rinse ca to do. Contin P403+P233 - S	ove victime on the viction of the vi	to fre ENTEI ith wat g. P33 well-v	sh air R or do er for s 7+P31 entilat	and I octor/p severa 3 - If ed pla	keep a hysicia I minut eye in ce. Ke	at rest an if you tes. Re ritation eep co	in a pour feel emove persistent p	position unwe conta sts: Ger tight	on ell. act Set itly	•
2	Effects of Exposure:	comfortable 1 P305+P351+ lenses, if pre medical advi closed. P40	for breathing. If P338 - IF IN Elesent and easy ice/attention. If 5 - Store locked If product is sw. Moderately irriting product of allergic skin re	HALED: Remore 2312 - Call a FYES: Rinse cause to do. Contin P403+P233 - Standard Removed, may allowed, may trating to the eyean cause mile eactions (e.g., r	POISON Coutiously we rinsing Store in a Dispose of Cause naures. It, transier ashes, we	to free CENTEI ith wate p. P33 a well-vof content usea, vont skin elts, der	esh air R or do er for s 7+P31 rentilat ents/co omitino irritatio	and I poctor/psevera 13 - If ed pla pontaine g and/o	keep a hysicial minuteye irrece. Karin aa oor diarren shorin prolo	at rest an if you des. Re- ritation deep co decorda thea.	in a pu feel emove persis ntaine nce wi	position unwer containsts: General tight ith local sure.	on ell. act Set titly cal This prexposu	re.
<u> </u>	Effects of Exposure: Symptoms of Overexposure:	comfortable in P305+P351+ lenses, if presented adviced adviced. P40 regulations. Ingestion: Eyes: Skin: Inhalation: Symptoms of may cause refugion prolong.	for breathing. If P338 - IF IN Elesent and easy ce/attention. If 5 - Store locked If product is sw. Moderately irri This product callergic skin reverse Vapors of this If skin overexpended or repeated	HALED: Remore 2312 - Call a FYES: Rinse can to do. Contin 2403+P233 - Sted up. P501 - vallowed, may trating to the eyean cause mile pactions (e.g., reproduct may be posure may included and watering. exposure.	ove victime POISON Coutiously we rinsing Store in a Dispose cocause natives. It is transier ashes, we invitating ude reduced to the production of the produ	to frecently to the control of the c	esh air R or do er for s 7+P31 rentilat ents/co omiting irritation matitis nose, hing, a n cause	and I poctor/psevera 3 - If ed pla pontaine g and/o pon with s) upor throat and irrie allerge	keep a hysicial minuteye irrice. Keer in acordian mendor m	at rest an if you des. Re- ritation deep co ccorda thea. t-term nged o her tiss of affe n react	in a pu feel emove persis ntaine nce wi expos or repersisues of cted a ions (6)	position unwered contains the c	on ell. act Set titly cal This prexposurespira Over tashes,	re. tory system exposure in ey welts, dermatit
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7.3

Special Precautions:

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 1/7/2015 4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control 4 1 First Aid: Ingestion: Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to Eyes: ensure complete flushing. If irritation persists, seek immediate medical attention. Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek Skin: prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek Inhalation: immediate medical attention. If breathing stops, perform artificial respiration. Medical Conditions 4.2 Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** Aggravated by Exposure: target organs (eyes, skin, and respiratory system). **FLAMMABILITY** 0 PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This material can burn but will not readily ignite. This material will release vapors (toxic fumes of sodium oxide) when heated above the flash point temperature that can ignite when exposed to a source of ignition. Toxic fumes of sodium oxide. 5.2 Extinguishing Methods: Dry chemical, foam, carbon dioxide, and water fog. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boil over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies 6. ACCIDENTAL RELEASE MEASURES Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. CAUTION - may be slippery if spilled. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Use normal hygiene practices. Avoid direct skin contact. Wash hands thoroughly after using this product and before 7.1 Work & Hygiene Practices: eating, drinking, or smoking. Good personal hygiene practices, such as washing any skin contact areas and removing contaminated clothing, are recommended. 72 Storage & Handling: Keep away from sources of heat.

Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of

Maximum Recommended Shelf-Life: 24 months.

reach of children.



11.7

11.8

11.9

Irritancy of Product:

Biological Exposure Indices:

Physician Recommendations:

See section 2.3

Treat symptomatically.

NE

SAFETY DATA SHEET

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99-5050 THE WORLD'S BEST AIR FILTER Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 1/7/2015 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Ventilation & Engineering Not required under normal conditions of use. Use with adequate ventilation (e.g., open doors and windows, local Controls: exhaust ventilation) 8.2 Respiratory Protection Not required under normal conditions of use. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. 8.3 Eye Protection: Avoid eye contact. Protective eyewear that conforms to ANSI Z87.1 (or other applicable and appropriate standards) should be used when handling any chemical product. Hand Protection: Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. 8.5 Body Protection: Not required under normal conditions of use. Use appropriate protective equipment (e.g., apron) as necessary to prevent or reduce exposure if frequent or prolonged contact is expected 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Pink liquid 9.2 Odor NA Odor Threshold: 9.3 NA 9.4 12-13 Melting Point/Freezing Point: 9.5 NA Initial Boiling Point/Boiling 9.6 NA Range: 9.7 Flashpoint: NA Upper/Lower Flammability 9.8 NA 9.9 Vapor Pressure: NA 9.10 Vapor Density NA 9.11 Relative Density: NA 9.12 Solubility: Soluble Partition Coefficient (log Pow): 9.13 NA Autoignition Temperature: 9.14 NA 9.15 Decomposition Temperature: NA Viscosity: 9.16 NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability Stable under normal conditions of use 10.2 Hazardous Decomposition None known. Products: 10.3 Hazardous Polymerization: Will not occur. 10.4 Conditions to Avoid: Strong oxidizers and reducing agents. 10.5 Incompatible Substances: Strong oxidizing agents, strong acids and bases 11. TOXICOLOGICAL INFORMATION Routes of Entry: Inhalation: YES 11.1 Ingestion: YES 11 2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data 11.3 Acute Toxicity: See section 2.4 11.4 Chronic Toxicity: See section 2.5 11.5 Suspected Carcinogen: 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenic effects in humans Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity This product is not reported to produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce reproductive effects in humans.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 4.0 SDS Revision Date: 1/7/2015 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 12 2 Effects on Plants & Animals: There are no specific data available for this product. 12.3 Effects on Aquatic Life There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. 13.2 Special Considerations: NA 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 14.1 49 CFR (GND): **NOT REGULATED** 14.2 IATA (AIR) **NOT REGULATED** IMDG (OCN): 14.3 **NOT REGULATED** 14.4 TDGR (Canadian GND): **NOT REGULATED** 14.5 ADR/RID (EU): **NOT REGULATED** SCT (MEXICO): 14.6 **NOT REGULATED** 14.7 ADGR (AUS): **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements SARA Threshold Planning 15.2 There are no specific Threshold Planning Quantities for the components of this product. Quantity: TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. CERCLA Reportable Quantity 15.4 NA (RQ) 15.5 Other Federal Requirements: This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA. 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects) State Regulatory Information: 15.7 No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI) 15.8 Other Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Irritant (Xi). Risk Phrases (R): 36/37/38 - Irritating to eyes, skin and respiratory system. Safety Phrases (S): 2-36/37-46 - Keep out of reach of children. Wear suitable protective clothing and gloves. If swallowed, seek medical advice immediately and show this container or label.



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		16. OTHER INFORMATION	
16.1	Other Information:	WARNING! MAY BE HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES EYE IRRITATION. Mash hands and exposed skin areas with soap and water thoroughly a handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plent soap and water. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CEN or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove cor lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store well-ventilated place. Keep container tightly closed. Store locked up. KEEP OUT OF REACH OF CHILDREN.	after ty of . IF TER ntact
16.2	Terms & Definitions:	See next page of this Safety Data Sheet.	
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. O government regulations must be reviewed for applicability to this product. To the best of ShipMate's and Engineering, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; howe accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, provided. The information contained herein relates only to the specific product(s). If this product(s) is combined other materials, all component properties must be considered. Data may be changed from time to time. Be sur consult the latest edition.	K&N ever, are with
16.4	Prepared for:	K&N Engineering, Inc. P.O. Box 1329 Riverside, CA 92502-1329 USA Tel: +1 (800) 858-3333 Fax: +1 (951) 826-4001 E-Mail: tech@knfilters.com http://www.knfilters.com	
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	



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SDS Revision Date: 1/7/2015

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
С	Ceiling Limit
IDLH	Immediately Dangerous to Life and Health
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

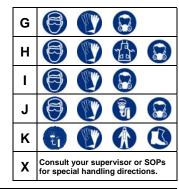
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D		型	
Е			
F			





Full Face Respirator





Protective Eyewear **Protective Clothing**

Face Shield &



Synthetic Apron





Dust & Vapor Half-Mask Respirator

Full Face Respirator

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

ML	Maximum Limit
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition			
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			

HAZARD RATINGS:

0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			
ACD	Acidic			
ALK	Alkaline			
COR	Corrosive			
W	Use No Water			
ОХ	Oxidizer			
TREFOIL	Radioactive			



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	S
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(*)	(2)	(3)	\odot	(18)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

T.		*	¥		%	×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond	中沙山		\		(X)
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment

<u>CHEMTREC</u>	
n-Country Dial Numbers	

Local # Provided in Country

Toll Free in Country*

Greeting Language

	AFRICA		
CHEMTREC South Africa*		0-800-983-611	English

SOUTH AMERICA						
CHEMTREC Argentina (Buenos Aires)	+(54)-1159839431		Latin American Spanish			
CHEMTREC Brazil (Rio De Janeiro)	+(55)-2139581449		Portuguese			
CHEMTREC Chile (Santiago)	+(56)-225814934		Latin American Spanish			
CHEMTREC Colombia *		01800-710-2151	Latin American Spanish			
CHEMTREC Mexico*		01-800-681-9531	Latin American Spanish			
CHEMTREC Peru (Lima)	+(51)-17071295		Latin American Spanish			

	ASIA		
CHEMTREC China*	4001-204937		Mandarin
CHEMTREC Hong Kong (Hong Kong)*		800-968-793	Cantonese
CHEMTREC India *		000-800-100-7141	Hindi
CHEMTREC Indonesia*		001-803-017-9114	Indonesian
CHEMTREC Japan (Tokyo)	+(81)-345209637		Japanese
CHEMTREC Malaysia *		1-800-815-308	Malay
CHEMTREC Philippines *		1-800-1-116-1020	Tagalog
CHEMTREC Philippines (Manila)	+(63) 632-395-3308		Tagalog
CHEMTREC Singapore*		800-101-2201	English and Mandarin
CHEMTREC Singapore	+(65)-31581349		English and Mandarin
CHEMTREC South Korea*		00-308-13-2549	Korean
CHEMTREC Taiwan*		00801-14-8954	Mandarin
CHEMTREC Thailand *		001-800-13-203- 9987	Thai

AUSTRALASIA					
CHEMTREC Australia (Sydney) +(61)-290372994 English					
CHEMTREC New Zealand (Auckland)*	+(64)-98010034		English		

	EUROPE		
CHEMTREC Belgium (Brussels)	+(32)-28083237		French and Flemish
CHEMTREC Czech Republic (Prague)	+(420)-228880039		Czech
CHEMTREC Denmark	+(45)-69918573		Danish
CHEMTREC France	+(33)-975181407		French
CHEMTREC Germany *		0800-181-7059	German
CHEMTREC Hungary (Budapest)	+(36)-18088425		Hungarian
CHEMTREC Italy *		800-789-767	Italian
CHEMTREC Italy (Milan)	+(39)-0245557031		Italian
CHEMTREC Netherlands	+(31)-858880596		Dutch
CHEMTREC Poland (Warsaw)	+(48)-223988029		Polish
CHEMTREC Portugal	+(351)-308801773		Portuguese
CHEMTREC Russia*		8-800-100-6346	Russian
CHEMTREC Slovakia (Bratislava)	+(421)-233057972		Slovak
CHEMTREC Spain*		900-868538	European Spanish
CHEMTREC Sweden (Stockholm)	+(46)-852503403		Swedish
CHEMTREC Switzerland (Zurich)	+(41)-435016715		Swiss German, French and Italian
CHEMTREC UK (London)	+(44)-870-8200418		English

MIDDLE EAST			
CHEMTREC Bahrain (Bahrain)	+(973)-16199372		Arabic
CHEMTREC Israel (Tel Aviv)	+(972)-37630639		Hebrew

*Phone numbers for countries marked with an asterisk must be dialed within the country