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99-0624

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 03/01/2011

	PRODUCT IDEN	ITIFICATION	ON				CHEMICAL	RESPC	NSE C	CARD:	95
1	Product Name:	K & N S	YNTHETI	C AIR FILTER	CLEANE	:R	RESPONSE		\int_{0}^{∞}	5	
2	Chemical Name:	See ingred	lients listed	l in section 3			TEAM PPE:	lacksquare	1	(00)	
3	Synonyms:	None repo	orted by th	e manufacturer				(
4	Trade Names:	Synthetic A	Synthetic Air Filter Cleaner				WHMIS:	(!)			
5	Product Use:	Automotiv					HEALTH:				2
5	Manufacturer's Name:						FLAMMABIL	ITV·			0
7	Manufacturer's Address:		K&N Engineering, Inc.				REACTIVITY:			_	
8	Business Phone:		P.O. Box 1329, Riverside, CA 92502-1329 USA						TION		0
		` '	+1 (800) 858-3333				PERSONAL F	ROIEC	IION:		В
9	Emergency Phone:	CHEMT	<u>REC +1</u>	(800) 424-	9300/+	l (703) 527	-3887				
				2. IDENTIFI	CATIO	N OE DICKS					
	Hazard Identification:			Z. IDENIIFI	CAIIUI	A OL KISKS					
1	This product is clas NOHSC:1088 (2004)					DANGEROUS GO	ODS according	to the o	classific	ation cr	iteria o
2	Routes of Entry:			nhalation:	YES	Absorption:	YES	Inges	tion:	•	YES
3	Effects of Exposure: EYES: This product c SKIN: This product c				e irritation	with short-term	•	id sprays	or mists	s.	
3	EYES: This product c SKIN: This product c INGESTION: If swallo the lungs, liquid can INHALATION: No sign	an cause mil wed, no sign cause sever gnificant adv	ld to mode ificant adv e lung dar rerse heal	erate, transient sk verse health effe mage or death. th effects are ex	e irritation irritation cts are and	with short-term with short-term icipated. Ingesti	exposure. on can cause a	laxative	effect.	lf aspira	
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3. COMPOSITION & INGREDIENTS

							EXPOS	URE LI	MITS IN	AIR (r	mg/m³)	
					AC	GIH	I	NOHSC			OSHA		
					pp	m		ppm			ppm		OTHER
							ES-	ES-	ES-				
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
SODIUM METASILICATE PENTAHYDRATE	6834-92-0	VV9287500	NA	≤ 5.0	NA	NA	NF	NF	NF	NA	NA	NA	

See Section 16 for Additional Definitions of Terms Used.

NOTE: All WHMIS required information is included – it is located in appropriate sections based on the ANSI Z400.1-2004 format.



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4. FIRST AID

4.1 First Aid:

<u>EYES</u>: Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.

<u>SKIN</u>: Remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods. If material is injected under the skin, into muscle, or into the bloodstream, seek medical attention immediately.

<u>INGESTION</u>: Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.

<u>INHALATION</u>: Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.

4.2 Medical Conditions Aggravated by Exposure:

Personnel with pre-existing skin disorders should avoid repeated or prolonged contact with this product.

	HEALTH				2	
	FLAMMABILITY				0	
	REACTIVITY				0	
	PROTEC	CTIVE EG	UIPMEN	T	В	
,	EYES	SKIN				

5. FIRE & EXPLOSION HAZARDS

5.1 Flashpoint & Method:

NA

5.2 Autoignition Temperature:

NA

5.3 Flammability Limits:

Lower Explosive Limit (LEL):

NA

Upper Explosive Limit (UEL):

NA

5.4 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.

5.5 Extinguishing Methods:

Dry chemical, foam, carbon dioxide, and water fog.

5.6 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. SPILLS & LEAKS

6.1 Spil

spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. For small spills, absorb or cover with dry earth, sand, or other inert absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements. Ensure disposal on compliance with government requirements & secure conformity to local disposal regulations. Notify the appropriate federal & provincial authorities immediately.



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	Stable under normal conditions.			
10.2	Decomposition Products:			
	Fumes, smoke, carbon monoxide, metal oxides, and trace hydrocarbons.			
10.3	Polymerization:			
	Will not occur.			
10.4	Conditions to Avoid:			
	Open flames, sparks, high heat, and close proximity to incompatible substances.			
10.5	Incompatible Substances:			
	Strong acids, alkalis, and oxidizers.			



13.2

Special Considerations

prohibited by local ordinance.

MATERIAL SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 03/01/2011 MSDS Revision Date: 11. TOXICOLOGICAL INFORMATION Toxicity Data: The product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. This data has not been presented in this document. Not listed by ACGIH, IARC, NTP, or CA Proposition 65. 11.2 Acute Toxicity: See section 2.5 11.3 Chronic Toxicity: See section 2.6 11.4 Suspected Carcinogen: NF 11.5 Reproductive Toxicity: Mutagenicity: This product is not expected to cause mutagenic effects in humans. Embryotoxicity This product is not expected to cause embryotoxic effects in humans. Teratogenicity: This product is not expected to cause teratogenic effects in humans. Reproductive Toxicity: This product is not expected to cause reproductive harm in humans. Irritancy of Product: 11.6 NΑ 11.7 Biological Exposure Indices: NA 11.8 Medical Recommendations: Treat symptomatically 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: Analysis for ecological effects has not been conducted on this product. 12.2 Effect on Plants & Animals An environmental fate analysis has not been conducted on this specific product. 12.3 Effect on Aquatic Life: There is no specific data available for this product. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Dispose of in accordance with federal & provincial hazardous waste laws.

If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise



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14.	TRANSP	ORTATION	INFORMATION
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The basic descrip	otion (ID Number,	proper shipping nam	e, hazard class &	& division, pa	acking group) is:	shown for each m	node of transportati	on.
Additional descr	ptive information	may be required by	49 CFR, IATA/ICA	O, IMDG ar	nd the CTDGR.			

14.1	49 CFR (GND):
	NOT REGULATED
14.2	IATA (AIR):
	NOT REGULATED
14.3	IMDG (OCN):
	NOT REGULATED
14.4	TDGR (Canadian GND):
	NOT REGULATED
14.5	ADR/RID (EU):
	NOT REGULATED
14.6	MEXICO (SCT):
	NOT REGULATED
14.7	ADGR (AUS):

15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

NOT REGULATED

This product does not contain any substances subject to SARA reporting requirements.

15.2 SARA Threshold Planning Quantity

NA

15.3 TSCA Inventory Status:

The components of this product are listed on the TSCA inventory.

HazChem Code: None allocated. Poison Schedule: None allocated

15.4 CERCLA Reportable Quantity (RQ):

NA 15.5 Other F

Other Federal Requirements:

NA

15.6 Other Canadian Regulations

All chemical substances of this product are listed on the CEPA DSL/NDSL or are exempt from list requirements. 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.



15.7 State Regulatory Information:

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC. Xi - Irritant. R: 36/38 - Irritating to eyes and skin. S: 2-13-24/25- 26-36/37/39-45 - Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).





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16. OTHER INFORMATION

Other Information:

This product has been classified according to the hazard criteria of the Controlled Products Regulations (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.

16.2 Terms & Definitions:

Please see last page of this MSDS.

16.3 Disclaimer

> This Material Safety Data Sheet complies with Health Canada's Workplace Hazardous Materials Information System (WHMIS) & U.S. OSHA's Hazard Communication Standard, 29 CFR §1910.1200. To the best of ShipMate's or K & N Engineering's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not quaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product. Contact the manufacturer for additional information.

16.4

K & N Engineering, Inc. PO Box 1329 Riverside, CA 92502 Phone: +1 (800) 858-3333 Fax: +1 (951) 826-4001 e-mail: tech@knfilters.com



Prepared by:

Steven Charles Hunt ShipMate, Inc. 780 Buckaroo Trail, Suite D Sisters, OR 97759 USA Phone: +1 (310) 370-3600

Fax: +1 (310) 370-5700

e-mail: shipmate@shipmate.com





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DEFINITIONS OF TERMS

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

GENERAL INFORMATION:

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

FIRST AID MEASURES:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

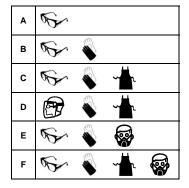
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

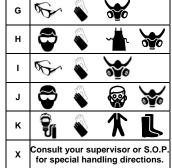
CAS No. | Chemical Abstract Service Number

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



PERSONAL PROTECTION RATINGS:









Face Shield & Eye Protection



Boots

6

Vapor Respirator







Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

FLAMMABILITY LIMITS IN AIR:

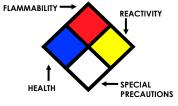
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of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

OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA HAZARD RATINGS:

Minimal Hazard
Slight Hazard
Moderate Hazard
Severe Hazard
Extreme Hazard
Acidic
Alkaline
Corrosive
Use No Water
Oxidizer



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				
TC, TC _o , LC _{io} , &	Lowest dose (or concentration) to cause lethal or toxic effects			
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:

CPR	Canada's Controlled Product Regulations
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
EU	European Union (European Union Directive 67/548/EEC)
DSL	Canadian Domestic Substance List
MAK	Mandat und die Arbeitsweise der Kommission (Work Area Commission)
NDSL	Canadian Non-Domestic Substance List
NOHSC	National Occupational Health & Safety Code (Australia)
PSL	Canadian Priority Substances List
TC	Transport Canada
TSCA	U.S. Toxic Substance Control Act
WHMIS	Canadian Workplace Hazardous Material Information System

EC INFORMATION:

			*			X	X
С	Е	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

WHMIS INFORMATION:

\oslash		(8)		(1)	®		
Α	В	С	D1	D2	D3	Е	F