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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 3/13/2014 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: **K&N CABIN AIR FILTER CLEANER KIT** 12 Chemical Name **Glycol Ether DB Solution** 1.3 Synonyms NA 14 Trade Names K&N Cabin Air Filter Cleaner Kit 15 Product Use: Air Filter Cleaning K & N Engineering, Inc. 1.6 Distributor's Name: 1.7 Distributor's Address: P.O. Box 1329, Riverside, CA 92502-1329 USA 1.8 Emergency Phone: CHEMTREC +1 (800) 424-9300 / +1 (703) 527-3887 (CCN 632715) - see also last 2 pages 19 Business Phone / Fax: +1 (800) 858-3333 / +1 (951) 826-4001 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia). WARNING! HARMFUL IF SWALLOWED. CAUSES SERIOUS EYE IRRITATION. Hazard Statements (H): H302 – Harmful if swallowed. H319 – Causes serious eye irritation. Precautionary Statements (P): P273 - Avoid release to the environment. P280 - Wear protective gloves/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container to an approved waste disposal plant. 2.2 Effects of Exposure: This product can cause transient mild to moderate eye irritation with short-term contact with liquid sprays or Eves: mists Skin: This product can cause mild to moderate, transient skin irritation with short-term exposure. If swallowed, no significant adverse health effects are anticipated. Ingestion can cause a laxative effect. If Ingestion: aspirated into the lungs, liquid can cause severe lung damage or death. Inhalation: No significant adverse health effects are expected to occur upon short-term exposure to this product. Aspiration of liquid into the lungs can cause severe lung damage or death. 23 Symptoms of Overexposure: Irritation, redness, and watering. Eyes: Possible irritation, defatting, or dermatitis (rash), characterized by dry, scaling, red, itching skin. Skin: Ingestion: Laxative effects. Gastrointestinal discomfort, nausea and headache. Inhalation: May cause irritation to the upper respiratory system. Overexposure to sprays or mists may cause chemical pneumonitis 2.4 Acute Health Effects: Slightly irritating, but will not permanently injure eye tissue. Eyes: Skin: Low toxicity. Frequent or prolonged contact may be irritating to the skin at the site of contact. Ingestion: Mild toxicity. Laxative effects. Gastrointestinal discomfort, nausea and headache. Inhalation: Negligible. At elevated temperatures or through mechanical action, may form vapors, mists or fumes that may be irritating to the eyes, nose, throat and lungs. 2.5 Chronic Health Effects Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, or dermatitis. Target Organs: 2.6 Eves, skin. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No RTECS No. EINECS No TLV STEL TLV STEL IDLH OTHER TWA STEL PEAK 7732-18-5 ZC0110000 60-100 231-791-2 NF NF NF NF NF NF NF NF WATER 112-34-5 KJ9100000 203-961-6 1-5 NA NA NF NF NF NA NA NA GLYCOL ETHER DB Eve Irrit. 2; H319 JR6650000 216-700-6 1-5 NA NA NF NF NF NA NA NA 1643-20-5 LAURYL DIMETHYLAMINE OXIDE NA NA NA 1-5 NA NA NF NF NF NA NA NA PROPRIETARY ADDITIVES VV9275000 229-912-9 NF NF 2 NA 25 6834-92-0 0.1-1 2 4 2 SODIUM METASILICATE Acute Tox. - Oral 4; Skin Corr. 1B; Serious Eye Dam. 1; STOT-SE 3; H302, H314, H335 NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; 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 Z400.1-2010 format.



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		4. FIRST AID MEASURES					
4.1	First Aid:	Ingestion: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (8 Poison Control Center or local emergency telephone immediate medical attention. If vomiting occurs spontar reduce the risk of aspiration. Eyes: If product gets in the eyes, flush eyes thoroughly with can holding eyelid(s) open to ensure complete flushing. If the use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with the skin reaction worsens, contact a physician immediately has been properly cleaned. Inhalation: Remove victim to fresh air at once. Under extreme condition Seek immediate medical attention.	number neously, l opious ar e eyes or with soap ly. Do not ons, if bre	for assistance keep victim's h nounts of wate face become s and water. If wear contami athing stops, p	and instruct nead lowered er for at leas swollen durin discomfort p nated clothin	tions. d (forw t 15 m g or fo ersists g until	Seek vard) to ninutes, ollowing and/or after it piration.
4.2	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin).					2
				MABILITY			0
				CAL HAZAR			0
			EYES	ECTIVE EQU			В
			ETES	SKIN			
		5. FIREFIGHTING MEASURES					
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which with air.	n can form	n explosive mix	tures		
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials.					
		As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fight fires as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon and silicon. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.					
		6. ACCIDENTAL RELEASE MEASU	RES				
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleat Equipment (PPE). Use safety glasses or safety goggles and face shi apron, boots, etc.) to prevent skin contact. <u>Small Spills</u> : (e.g., ≤ 1.0 gallon (3.8 L)) - Wear appropriate protective er Use a non-combustible, inert material such as vermiculite or sand to later disposal. <u>Large Spills</u> : (e.g., > 1.0 gallon (3.8 L)) - Keep incompatible materials upwind and away from spill or release. Isolate immediate hazard ar Stop spill or release if it can be done with minimal risk. Wear appr protection as conditions warrant. Recover as much free liquid as po absorbent to pick up residue. Avoid discharging liquid directly into a se	anup mus eld; use g quipment soak up t s (e.g., or ea and k opriate p ssible an	gloves and othe including glove he product and ganics such as eep unauthoriz rotective equip d collect in aci	er protective es and protec d place into a s oil) away fro zed personne ment includii	clothin ctive ey conta om spil el out c ng res	g (e.g., vewear. iner for II. Stay of area. piratory
		7. HANDLING & STORAGE INFORMA	TION				
7.1	Work & Hygiene Practices:	Avoid breathing mists or spray. Avoid eye and skin contact. Wear prot of the reach of children. Do not eat, drink or smoke when handling thi expose to heat and flame. Use only in ventilated areas. Keep out of decontaminate any spills or residues.	s product the reac	. Wash thorou h of children.	ighly after ha Immediately	ndling. clean	. Do not -up and
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exh sunlight. Store in acid-resistant containers. Keep containers covered (120°F). Keep away from incompatible substances (see Section 10).	when no	t in use. Avoid	I temperature	s abov	
7.3	Special Precautions:	Empty containers may retain hazardous product residues.					



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		8. EXPOSURE CONTROLS & PERSONAL PROTECTION
8.1	Ventilation & Engineering Controls:	Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).
8.2	Respiratory Protection:	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:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.
8.4	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.
8.5	Body Protection:	A chemical resistant apron and/or protective clothing are also recommended when handling or using this product.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Colorless liquid
9.2	Odor:	Solvent Odor
9.3	Odor Threshold:	NA
9.4	pH:	11.0-12.4
9.5	Melting Point/Freezing Point:	
9.6	Initial Boiling Point/Boiling	≤ 0 °C (32 °F)
9.0	Range:	≥ 100 °C (212 °F)
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	1.005 g/mL
9.12	Solubility:	Soluble in water
9.13	Partition Coefficient (log Pow):	Glycol Ether DB: log P _{ow} : 1 @ 20 °C (68 °F)
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable at normal temperatures.
10.2	Hazardous Decomposition Products:	Fumes, smoke, carbon monoxide, silicon oxides.
10.3	Hazardous 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, oxidizers and some metals (e.g., lead, tin/tin oxides, zinc, aluminum).
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES
11.2	Toxicity Data:	Data from scientific literature is shown below: Glycol Ether DB: LD₅₀ (oral, rat) = 7,291 mg/kg; Lauryl Dimethylamine Oxide: LD₅₀ (oral, mouse) = 2,700 mg/kg
11.3	Acute Toxicity:	See Section 2.4
11.4	Chronic Toxicity:	See Section 2.5
11.5	Suspected Carcinogen:	NA
11.6	Reproductive Toxicity:	This product is not reported to cause 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 cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
11.7	Irritancy of Product:	See Section 2.3
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
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		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	No data available.
12.2	Effects on Plants & Animals:	No data available.
12.3	Effects on Aquatic Life:	Do not let product enter drains.
		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. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	Special Considerations:	NA
		14. TRANSPORTATION INFORMATION
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	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 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.
15.4	CERCLA Reportable Quantity (RQ):	NA
15.5	Other Federal Requirements:	NA
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 Class D2B (Materials Causing Other Toxic Effects).
15.7	State Regulatory Information:	Sodium Metasilicate is found on the following state criteria lists: Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), and Pennsylvania Right-to-Know List (PA). No other 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 listed in Annex I of EU Directive 67/548/EEC. <u>Glycol Ether DB</u> : Irritant (Xi). <u>Risk Phrases</u> (R): R36 – Irritating to eyes. <u>Safety Phrases</u> (S): S2- 13-24/25-26-36/39 - Keep out of reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately. Wear suitable gloves and eye/face protection. <u>HazChem Code</u> : None allocated. <u>Poisons Schedule</u> : None allocated



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		16. OTHER INF	ORMATION			
16.1	Other Information:	WARNING! HARMFUL IF SWALLOWED. CAUSES SERIOUS EYE IRRITATION. Avoid contact with eyes and skin. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear suitable eye protection and gloves. Keep locked up and away from food or drinks. KEEP OUT OF REACH OF CHILDREN.				
16.2	Terms & Definitions:	See next to last 2 pages of this Safety Data She	et.			
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & K & Engineering, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.				
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	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 has stopped receives manual chest compressions and breathing to circulate blood CPR and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

-										
Α						G	0			
в						н		(EY)	T.	
С			Par la							
D	B		HI I			J			Î	
Е						κ			R	
F	0		四			х	Consult for spec	your su ial hand	pervisor o ling direct	or SOPs tions.
Sa	fety Glas	ses	Splash	Goggles	P		Shield &		Glov) es
Boots		Syntheti	c Apron	Protective Clothing & Full Suit		ing	Dust Respirator			
		8	3					Ť		

OTHER STANDARD ABBREVIATIONS:

Full Face Respirator

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

Full Face

Respirator

Airline Hood/Mask

or SCBA

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

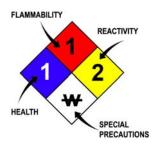
Dust & Vapor Half-

Mask Respirator

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:					
Autoignition Minimum temperature required to initiate combustion in air with no of Temperature source of ignition						
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, tha 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 _{to}	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 _{lo} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
тс	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)
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WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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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:

V		N	¥	*	*	×	×
С	E	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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



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				T & COM										
1.1	Product Name:	K&N CAE	BIN AIR F	FILTER R	EFRES	SHEF	r KII	Г						
.2	Chemical Name:	Glycol Ether D	B Solution											
.3	Synonyms:	NA												
.4		K&N Cabin Air	Filter Refres	her Kit										
.5		Air Filter Clear	U U											
.6		K & N Enginee	0											
.7				CA 92502-1329										
.8		CHEMTRE	C +1 (800)	424-9300 /	+1 (703) 527-	3887	(CC	N 632	715) -	- see	also	last	2 pages
.9	Business Phone / Fax:	+1 (800) 858-	3333 / +1 (95	1) 826-4001										
			2 H	AZARDS			ΔΤΙΟ)N						
.1	Hazard Identification:	This product is		s a hazardous					us aood	s acco	rdina t	o the		
				HSC: 1088 (20							. ag t	00		
				SWALLOWED						N.				
				02 – Harmful if										/ \
ļ				(P): P273 - A										
ļ				protection. P30 an. P305+P35										\mathbf{V}
				contact lenses										•
				ner to an appro							. <u>.</u>			
2	Effects of Exposure:			n cause transie	ent mild to	moder	ate ey	e irritat	ion with	short-t	erm co	ontact	with I	iquid sprays
			sts.			4								
				n cause mild to o significant ad										vativa offact
				e lungs, liquid							II Call	caus	e a 1a.	tauve enect.
				adverse health							-term	expos	sure t	o this produ
				uid into the lung										
.3		-		s, and watering	0									
				n, defatting, or		. ,.				scaling	g, red,	itchin	g skin	•
ļ				Gastrointesti		'								
			eumonitis.	tion to the upp	per respira	tory sy	stem.	Overe	xposure	to spra	iys or	mists	may o	cause chemi
.4	Acute Health Effects:			, but will not pe	rmanently	iniure	eve tis	SUE						
			• • •		•	-	•		to the sk	in at th	e site	of cor	ntact.	
		Skin: Low toxicity. Frequent or prolonged contact may be irritating to the skin at the site of contact. <u>ngestion</u> : Mild toxicity. Laxative effects. Gastrointestinal discomfort, nausea and headache.												
ļ		Inhalation: Ne	gligible. At e	elevated tempe	eratures or	throug	gh meo					apors,	mists	or fumes th
				to the eyes, no						<u> </u>				
5		Prolonged or dermatitis.	repeated ski	n contact can	cause mi	ld irrita	ition a	nd infla	ammatior	n chara	acteriz	ed by	[,] dryin	g, cracking,
6		Eves, skin.												
		Lусэ, экп.												
		3. CC	MPOSIT		GREDI	<u>ENT</u>	INF	ORN	EXPOSU) (ma ar /m	-31	
						AC	GIH		NOHSC			GHA	·)	
						pp	om		ppm		р	om		
	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA		S- AK TI	LV ST	EL II	DLH	OTHER
ATE		7732-18-5	ZC0110000	231-791-2	60-100	NE	NE	NF					NE	OTTIER
AIE	ĸ					1				- 1 -				
ROP	YLENE GLYCOL	57-55-6 Acute. Tox.4; I	TY2000000	200-338-0	5-10	NA	NA	10	NF N	IF N	AN	IA	NA	
		112-34-5	KJ9100000	203-961-6	1-5	NA	NA	NF	NF N	IF N	IA N	IA	NA	
	DL ETHER DB	Eye Irrit. 2; H3	19											
	ENEDIAMINETETRAACETIC EDTA)	60-00-4 Eye Irrit. 2A; H	AH4025000	200-449-4	1-5	NA	NA	NF	NF N	IF N	IA N	IA	NA	
	·	NA	NA	NA	1-5	NA	NA	NF	NF N	IF N		A	NA	
	RIETARY ADDITIVES	1												
ROP														



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		4. FIRST AID MEASURES							
4.1	First Aid:	Ingestion: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (8 Poison Control Center or local emergency telephone immediate medical attention. If vomiting occurs spontar reduce the risk of aspiration. Eyes: If product gets in the eyes, flush eyes thoroughly with comboding eyelid(s) open to ensure complete flushing. If the use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with the skin reaction worsens, contact a physician immediately has been properly cleaned. Inhalation: Remove victim to fresh air at once. Under extreme condition Seek immediate medical attention. Pre-existing dermatitis, other skin conditions, and disorders of the	number neously, opious ar e eyes or with soap y. Do no ons, if bre	for assistance keep victim's h nounts of wate face become s and water. If t wear contamin eathing stops, p	and instruc ead lowered r for at leas wollen during discomfort penated clothin	tions. I (forwa t 15 mir g or folle ersists a g until a ial respir	Seek ard) to nutes, lowing and/or after it		
	Aggravated by Exposure:	target organs (eyes, skin).	FLAM	MABILITY		(0		
			PHYS	CAL HAZAR	DS	(0		
			PROT		IPMENT	E	В		
			EYES	SKIN					
		5. FIREFIGHTING MEASURES							
5.1	Fire & Explosion Hazards:	Non-flammable. May react with metals to release hydrogen gas, which with air.	a can forn	n explosive mix	tures				
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	Use fire-extinguishing media appropriate for surrounding materials.							
	As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fight fires as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon and silicon. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.								
		6. ACCIDENTAL RELEASE MEASU	RES						
6.1	Spills:	 Before cleaning any spill or leak, individuals involved in spill cleat Equipment (PPE). Use safety glasses or safety goggles and face shid apron, boots, etc.) to prevent skin contact. <u>Small Spills</u>: (e.g., ≤ 1.0 gallon (3.8 L)) - Wear appropriate protective etc. Use a non-combustible, inert material such as vermiculite or sand to a later disposal. <u>Large Spills</u>: (e.g., > 1.0 gallon (3.8 L)) - Keep incompatible materials upwind and away from spill or release. Isolate immediate hazard arr Stop spill or release if it can be done with minimal risk. Wear appropriate protection as conditions warrant. Recover as much free liquid as possible absorbent to pick up residue. Avoid discharging liquid directly into a set of the set	nup mus eld; use g quipment soak up t s (e.g., or ea and k opriate p ssible an	gloves and othe including glove he product and ganics such as eep unauthoriz rotective equipr d collect in acid	er protective es and protect place into a oil) away fro ed personne ment includir	clothing tive eye contain om spill. l out of ng respi	(e.g., ewear. her for Stay area. iratory		
	1	7. HANDLING & STORAGE INFORMA							
7.1	Work & Hygiene Practices:	Avoid breathing mists or spray. Avoid eye and skin contact. Wear proto of the reach of children. Do not eat, drink or smoke when handling this expose to heat and flame. Use only in ventilated areas. Keep out of decontaminate any spills or residues.	s product the read	. Wash thorough of children.	ghly after ha	ndling. [clean-u	Do not up and		
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exh sunlight. Store in acid-resistant containers. Keep containers covered (120°F). Keep away from incompatible substances (see Section 10). F	when no	t in use. Avoid	temperature	s above			
7.3	Special Precautions:	Empty containers may retain hazardous product residues.							
						-			



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		8. EXPOSURE CONTROLS & PERSONAL PROTECTION									
8.1	Ventilation & Engineering										
0.1	Controls:	Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).									
8.2	Respiratory Protection:	n instances where vapors or sprays of this product are generated, and respiratory protection is eeded, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or he Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC nember States, or Australia.									
8.3	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.									
8.4	Hand Protection:	Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product.									
8.5	Body Protection:	A chemical resistant apron and/or protective clothing are also recommended when handling or using this product.									
		9. PHYSICAL & CHEMICAL PROPERTIES									
9.1	Appearance:	Colorless liquid									
9.2	Odor:	Mild Odor									
9.3	Odor Threshold:	NA									
9.4	pH:	≤ 8.5									
9.5	Melting Point/Freezing Point:										
		≤ 0 °C (32 °F)									
9.6	Initial Boiling Point/Boiling Range:	≥ 100 °C (212 °F)									
9.7	Flashpoint:	NA									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	NA									
9.11	Relative Density:	1.025 g/mL									
9.12	Solubility:	Soluble in water									
9.13	Partition Coefficient (log Pow):	EDTA: log P _{ow} : 8.85 - 10.44 @ 20 °C (68 °F); <u>Glycol Ether DB</u> : log P _{ow} : 1 @ 20 °C (68 °F)									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:										
0.17		% VOC: ≤ 51 g/L									
		10. STABILITY & REACTIVITY									
10.1	Stability:	Stable at normal temperatures.									
10.2	Hazardous Decomposition Products:	Fumes, smoke, carbon monoxide, silicon oxides.									
10.3	· · · · · · · · · · · · · · · · · · ·	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, oxidizers and some metals (e.g., lead, tin/tin oxides, zinc, aluminum).									
		11. TOXICOLOGICAL INFORMATION									
11 4	Doutes of Entry										
11.1	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES									
11.2	Toxicity Data:	Data from scientific literature is shown below: EDTA: LD_{50} (oral, rat) = 4,500 mg/kg; <u>Glycol Ether DB</u> : LD_{50} (oral, rat) = 7,291 mg/kg									
11.3	Acute Toxicity:	See Section 2.4									
11.4	Chronic Toxicity:	See Section 2.5									
11.5	Suspected Carcinogen:	NA									
11.6	Reproductive Toxicity:	This product is not reported to cause 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 cause teratogenic effects in humans.									
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.									
11.7	Irritancy of Product:	See Section 2.3									
11.8	Biological Exposure Indices:	NE									
11.9	Physician Recommendations:	Treat symptomatically.									



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		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	No data available.
12.2	Effects on Plants & Animals:	No data available.
12.3	Effects on Aquatic Life:	Do not let product enter drains.
	1	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. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler.
13.2	Special Considerations:	NA
		14. TRANSPORTATION INFORMATION
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	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 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.
15.4	CERCLA Reportable Quantity (RQ):	Ethylenediaminetetraacetic Acid: 2,270 kg (5,000 lbs)
15.5	Other Federal Requirements:	NA
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 Class D2B (Materials Causing Other Toxic Effects).
15.7	State Regulatory Information:	Propylene Glycol is found on the following state criteria lists: Massachusetts Hazardous Substances List (MA), and Pennsylvania Right-to-Know List (PA). <u>Ethylenediaminetetraacetic Acid</u> is found on the following state criteria lists: MN and PA. No other 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 listed in Annex I of EU Directive 67/548/EEC. <u>Glycol Ether DB</u> : Irritant (Xi). <u>Risk Phrases</u> (R): R36 – Irritating to eyes. <u>Safety Phrases</u> (S): S2- 13-24/25-26-36/39 - Keep out of reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately. Wear suitable gloves and eye/face protection. <u>Ethylenediaminetetraacetic Acid</u> : Irritant (Xi). <u>Risk Phrases</u> (R): R36 – Irritating to eyes. <u>Safety</u> <u>Phrases</u> (S): S2-13-24/25-26-36/39 - Keep out of reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately. Wear suitable gloves and eye/face protection. <u>HazChem Code</u> : None allocated. <u>Poisons Schedule</u> : None allocated



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		16. OTHER INFO	ORMATION									
16.1	Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear suitable eye protection and gloves. Keep locked up and away from food or drinks. KEEP OUT OF REACH OF CHILDREN.											
16.2	Terms & Definitions:	See next to last 2 pages of this Safety Data Shee	t.									
16.3	Disclaimer:	government regulations must be reviewed for ap Inc.'s knowledge, the information contained here or completeness are not guaranteed and no wa information contained herein relates only to the s	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other plicability to this product. To the best of ShipMate's & K & Engineering, in is reliable and accurate as of this date; however, accuracy, suitability arranties of any type, either expressed or implied, are provided. The pecific product(s). If this product(s) is combined with other materials, all ta may be changed from time to time. Be sure to consult the latest									
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
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 has stopped receives manual chest compressions and breathing to circulate blood CPR and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

Α					G	0			
В					Н	0		1	
С			The second		I	0			
D	B		F.I		J	0		Î	
Е					к	•		Å	
F	0		内田		Х	Consult for spec	your su ial hand	pervisor o ling direct	or SOPs tions.
						<u> </u>			
Sa	fety Glas	ses	Splash	Goggles		e Shield &		Glov) es
Boots			Syntheti	c Apron	Protective Clothing & Full Suit		ing	Dust Res	pirator
			8	3				Ť	

OTHER STANDARD ABBREVIATIONS:

Full Face Respirator

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

Full Face

Respirator

Airline Hood/Mask

or SCBA

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

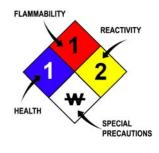
66 Dust & Vapor Half-

Mask Respirator

FLAMMABILI	TY 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 _{to}	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
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
тс	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)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٢		1	۲		Ĩ
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:

		×	¥	*	*	×	×
С	E	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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

CHEMTRECLocal # Provided in CountryToll Free in Country*Greeting LanguageIn-Country Dial NumbersCountryCountry*

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