

Prepa	ared to OSHA, ACC, ANSI, NO	HSC, WHMIS,	2001/58 & 1272/20	008/EC Standard	ls		SDS F	Revision:	: 1.0] ;	SDS R	Revision	Date:	5/6/2015
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	Ta	1.	PRODUC	I & COM	PANY	IDEI	NIIF	ICAI	ION					
1.1	Product Name:													
.2	Chemical Name:	See ingredie	nts listed in sect	ion 3										
.3	Synonyms:	523W												
.4	Trade Names:													
.5	Product Use:	Air Filter Clea	aner											
.6		Walker Engir												
.7		9255 San Fernando Road, Sun Valley CA 91352 USA												
.8		CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300												
.9			-7788 / +1 (818)		Ŧ1 (000	<i>)</i> 424	-9300	,						
		1 (010) 202	77007 - 1 (010)	202 1100										
			2 НΔ	ZARDSI	DENTI	FIC	ΔΤΙΟ	N						
.1	Hazard Identification:	This product	is classified as						s DAN	GERO	ous c	COOF	s	
			the classification										Ŭ	
			AUSES SEVER									ATOR	Υ	
			. HARMFUL TO											_
			: Skin Corr. 1B;											
			ements (H): H31		•			eve da	mage.	H33	5 Mav	/ caus	е	
			ritation. H412 –								,	,		
			y Statements (P							orav. I	P264 ·	– Was	h	
			xposed skin are											
		outdoors or	in a well-ventila	ted area. P2	73 – Avoi	d rele	ase to	the en	vironm	ent. I	P280	- Wea	ar	
			loves/protective											
		SWALLOWE	D: Rinse mouth.	. Do NOT indu	ICA VAMitir	na Pa	303+P3	361+P3	53 _ IF	ON S	KIN (or hair	١.	
		SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P363 – Wash								()				
			ediately all conf	taminated clot	ning. Rins	se skir	with w	water [c	or show	er]. F	⁻ 363	- Was	h	\: /
		contaminated	nediately all cont	taminated clot	ning. Rins I+P340 –	se skir IF INF	with with with with the second terms of the se	water [c	or show	er]. Fi	2363 - fresh	– Was air an	h d	V
		contaminated keep at rest	nediately all conf d clothing before in a position o	taminated clother reuse. P304 comfortable for	ning. Rins I+P340 – r breathin	se skir IF INH g. P3	with with with with the windows and with the wit	water [c : Remo 351+P3	or show ove vict 38 – If	er]. F im to F IN I	P363 - fresh EYES	– Was air an : Rins	h d e	\
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		contaminated keep at rest cautiously wi Continue rins	nediately all control of clothing before in a position of the water for sessing. P337+P3	taminated clother reuse. P304 comfortable for everal minutes 13 – If eye irr	ning. Rins I+P340 – r breathin . Remove itation pe	se skir IF INF g. P3 conta rsists:	with with MALED 305+P3 act len Get m	water [c : Remo 351+P3 ses, if nedical	or show ove vict 38 – If presen advice/	er]. Fim to Fin IN	P363 - fresh EYES easy ion.	– Was air an : Rins	h d e o.	V
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has been properly cleaned.

Inhalation:

Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.



SDS Revision Date: 5/6/2015

AIRSEP Walker Engineering Enterprises

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

SAFETY DATA SHEET

SDS Revision: 1.0

4. FIRST AID MEASURES - cont'd 42 Effects of Exposure: Severe burns of mouth, throat and stomach. Symptoms may include vomiting, diarrhea, and abdominal Ingestion: Eyes: Severe irritation, burns, eye damage. Corrosive. Severe irritation, and possible burns. Skin: Severe irritation of respiratory tract and mucous membranes; coughing, difficulty breathing Inhalation: 4.3 Symptoms of Overexposure: Nausea, vomiting, severe abdominal pain. Ingestion: Eyes: Redness, burning, irritation, and swelling around eyes. Eye damaged Redness, burning, itching, rash, and scaling of the skin (dermatitis). Skin: Coughing, wheezing, swelling of throat, irritation in mucous membranes, difficulty breathing. 44 Acute Health Effects: Severe or permanent eye damage. Severe irritation and possible burns. Severe burns of mouth, throat and stomach. Severe irritation of respiratory tract and mucous membranes. Chronic Health Effects: 4.5 Severe or permanent eye damage. 4.6 Target Organs: Eyes, Skin & Respiratory System. 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the 2 **HEALTH** Aggravated by Exposure: target organs (eyes, skin, and respiratory system). Preclude from **FLAMMABILITY** 0 exposure those individuals that are susceptible to dermatitis, asthma PHYSICAL HAZARDS 0 or bronchitis. PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES This material can burn but will not readily ignite. This material will release vapors (toxic fumes of 5.1 Fire & Explosion Hazards: 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 Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills 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 7.1 Work & Hygiene Practices: Use normal hygiene practices. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking. Good personal hygiene practices, such as washing any skin contact areas and removing contaminated clothing, are recommended. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Keep away from incompatible substances (see Section 10). Protect containers from physical damage. Do not freeze (< 32 °F), or heat (110 °F). 7.3 Special Precautions: Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of reach of children. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA OTHER 8.1 ppm (mg/m³) ES-PEAK TLV STEL **ES-TWA ES-STEL** STEL CHEMICAL NAME(S) PEL **IDLH** BUTOXYETHANOL 242 SKIN 50 75 96.9 50 50 NA 240 SODIUM METASILICATE NF NF NF 10 NA 15 NA NA **PENTAHYDRATE**



Mutagenicity

Embryotoxicity:

Teratogenicity:

11.7

11.8

Reproductive Toxicity:

Biological Exposure Indices:

Physician Recommendations:

See section 4.3

Treat symptomatically.

NE

Irritancy of Product:

SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 5/6/2015 8. EXPOSURE CONTROLS & PERSONAL PROTECTION - cont'd Ventilation & Engineering Not required under normal conditions of use. Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation) 8.3 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. 8.4 Eve 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. 8.5 Hand Protection: Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. 8.6 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 Appearance: Yellow liquid 9.2 Odor Slight butyl odor 9.3 Odor Threshold: NA 9.4 :Ha 14 Melting Point/Freezing Point: 9.5 NA Initial Boiling Point/Boiling 9.6 > 100 °C (212 °F) Range: 9.7 Flashpoint NE 9.8 Upper/Lower Flammability NA 9.9 Vapor Pressure: NA 9.10 Vapor Density NA 9.11 Relative Density: ~8.69 lbs/gal 9.12 Solubility Soluble 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature: NA Decomposition Temperature: 9.15 NA 9.16 Viscosity NA Other Information: 9.17 VOC: < 4.000 G/L 10. STABILITY & REACTIVITY Stable under normal conditions of use 10.1 Stability 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: NO Absorption: YES Ingestion: YES 11.1 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 but is not presented below. Acute Toxicity: 11.3 See section 4.4 11.4 Chronic Toxicity See section 4.5 Suspected Carcinogen: Butoxyethanol: IARC Group 3 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans.

This product is not reported to produce mutagenic effects in humans

This product is not reported to produce embryotoxic effects in humans.

This product is not reported to produce teratogenic effects in humans.

This product is not reported to produce reproductive effects in humans.



Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 5/6/2015 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 122 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. 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 contains Butoxyethanol, a substance 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 Sodium Hypochlorite: 45 kg (100 lbs.) (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 Class E (Corrosive Material), Class D2B (Materials Causing Other Toxic Effects). State Regulatory Information: Butoxyethanol is found on the following state criteria list: Florida Toxic Substances List (FL), Massachusetts Hazardous 15.7 Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA) and Washington Permissible Exposures List (WA). Sodium Metasilicate is found on the following state criteria lists: NJ and PA. Sodium Hypochlorite is found on the following state criteria list: MA, 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 not listed in Annex I of EU Directive 67/548/EEC: Sodium Metasilicate: Corrosive(C). Risk Phrases (R): 34-37 - Causes burns. Irritation to respiratory system. Safety Phrases (S): (1/2)-13-24/25-36/37/39-45 - Keep locked up and out of reach of children. Keep away from food drink and animal foodstuffs. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell seek medical advice immediately (show label where possible). Sodium Hypochlorite: Corrosive(C); Environmental Danger (N). Risk Phrases (R): 31-34-50 Contact with acids liberates toxic gas. Causes burns. Very toxic to aquatic organisms. Safety Phrases (S): (1/2)-28-45-50-61 - Keep locked up and out of reach of children. After contact with skin wash immediately with plenty of water. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Do not mix with acids. Avoid release to the environment. Refer to special instructions/safety data sheet.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 5/6/2015 16. OTHER INFORMATION Other Information: DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Use only as directed. dust/fume/mist/vapors/spray. Wash hands and exposed skin areas with soap and water thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Keep container tightly closed. Store locked up. **KEEP OUT OF REACH OF CHILDREN.** Terms & Definitions: 16.2 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. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Walker Engineering Enterprises Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not quaranteed 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. Prepared for: Walker Engineering Enterprises Inc. 9255 San Fernando Road Sun Valley, CA 91352 USA **Walker Engineering Enterprises** Tel: +1 (818) 252-7788 Fax: +1 (818) 252-7785 http://www.walkerairsep.com/ 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA

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SDS Revision: 1.0

SDS Revision Date: 5/6/2015

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

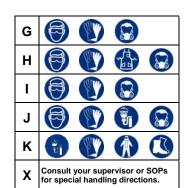
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH FLAMMABILITY PHYSICAL HAZARDS PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D		型	
E			
F		西	





Splash Goggles



Synthetic Apron

Protective Clothing & Full Suit

Dust Respirator

Dust & Vapor Half-Mask Respirator **Full Face Respirator**

Full Face

1 Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

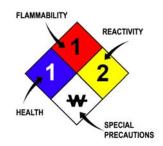
ML	Maximum Limit
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:										
Autoignition	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 explode or ignite in the presence of an ignition source UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that										
					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, 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	DSL Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	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)		\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:

L. T		M	*		Q	×	×
О	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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