



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME

Walker Design Inc.
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Safety Data Sheet Competent Person: Paul Thompson

DATE PREPARED: September 22, 2015

REVISION DATE: November 12, 2015

PRODUCT NAME: **Air Filter Cleaner**

FORMULA: Preparation/Mixture

PRODUCT USE: Multipurpose cleaner

Section 2: Hazards Identification

I updated the Eye Damage classification.



GHS Hazard Class

Acute toxicity (Oral) – Category 4
Acute toxicity (Dermal) – Category 3
Acute toxicity (Inhaled) – Category 2
Skin Corrosion/Irritation – Category 2
Serious Eye Damage/Eye Irritation -- Category 1
Reproductive Toxicity – Category 2
STOT -- Single Exposure – Category 1 (CNS), Category 3 (blood)
STOT – Repeated Exposure – Category 2 (blood)

Signal word:

Danger

Hazard Statement:

H302: Harmful if swallowed
H311: Toxic in contact with skin
H330: Fatal if inhaled
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage

Precautionary Statements:

Prevention

P202: Do not handle until all safety precautions have been read and understood
P261: Avoid breathing fumes/vapor/gas/mist/spray
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P284: Wear respiratory protection

Response

P270: Do not eat, drink or smoke when using this product
P304+P340: IF INHALED: remove person to fresh air and keep comfortable for breathing
P312: Call POISON CENTER or physician if you feel unwell
P302+P352: IF ON SKIN: wash with plenty of water/ take off contaminated clothing.
P301+P361+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310: Immediately call a POISON CENTER or doctor/physician.

Storage

P405: Store locked up
P403+P233: Store in a well-ventilated place. Keep container tightly closed

Disposal

P501: Dispose of contents/container in accordance with waste disposal requirements of your country, state, or local authorities

Hazards not otherwise classified (HNOC) - Repeated exposure may cause skin dryness or cracking

HAZARD CLASSIFICATION:

Not classified as hazardous based on IATA, IMDG, and DOT.

FIRE AND EXPLOSION:

Not considered flammable or combustible, but this product will burn if involved in a fire. Product emits toxic fumes when burned.

POTENTIAL HEALTH EFFECTS:

<1 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE:

Yellow liquid



FPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Air Filter Cleaner	2	0	0	-----

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Water	65-70	7732-18-5	231-791-2	Y
Tetrapotassium Pyrophosphate	<10	732-34-5	--	N
Trisodium Phosphate Dodecahydrate	<5	10101-89-0	--	N
Polyethylene glycol mono ether phosphate	<5	52623-95-7	--	Y
Sodium Metasilicate Pentahydrate	<5	10213-79-3	--	N
Ethylene glycol monobutyl ether	<5	111-76-2	203-905-0	Y
Sodium hypochlorite	<1	7681-52-9	231-668-3	Y

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
Skin Contact	Immediately wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately. Continue rinsing during transport to the hospital.
Ingestion	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation	May be harmful if inhaled. Inhalation of a mist of this material may cause respiratory tract irritation. May cause narcotic effects at high concentrations.
Symptoms/Injuries after Skin Contact	Prolonged or repeated skin contact may cause dermatitis. Cause skin irritation. May be harmful if absorbed through skin. Causes skin burns.
Symptoms/Injuries after Eye Contact	Causes eye irritation. May cause transient corneal injury. Causes eye burns. Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury.
Symptoms/Injuries after Ingestion	May be harmful if swallowed. May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment -needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.



Section 5: Fire-fighting Measures

Suitable extinguishing media

Special hazards arising from the substance or mixture

Protective actions fire-fighters

Use water, dry chemical, chemical foam, or alcohol-resistant foam.
No data available.

Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.

Use water spray to keep fire-exposed containers cool.

Further information

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing vapors or mist.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

Avoid breathing dust, mist or vapor

Use in a well ventilated area

Avoid contact with eyes, skin, clothing, and shoes

Do not ingest or inhale

Wash hands thoroughly after handling

Conditions for safe storage, including any incompatibilities

Store upright in a cool, dry place

Keep container closed when not in use

Store away from incompatible materials

Utilize chemical segregation

Follow all applicable local regulations for handling and storage

Specific uses

For use multipurpose cleaner

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Tetrapotassium Pyrophosphate	--	--	--
Trisodium Phosphate Dodecahydrate	--	--	--
Polyethylene glycol mono ether phosphate	1 mg/m ³	1 mg/m ³	--
Sodium Metasilicate Pentahydrate	10 mg/m ³	15 mg/m ³	--
Ethylene glycol monobutyl ether	TWA 50 ppm (240 mg/m ³) [skin]	TWA 50 ppm (240 mg/m ³) [skin]	TWA 5 ppm (24 mg/m ³) [skin]
Sodium hypochlorite	--	--	--

Exposure controls



VENTILATION:	Always provide good general, mechanical room ventilation where this chemical/material is used.
SPECIAL VENTILATION CONTROLS:	Where adequate general ventilation is unavailable, use this material inside totally enclosed equipment, or use it with local exhaust ventilation at points where vapors can be released into the workspace air.
RESPIRATORY PROTECTION:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
PROTECTIVE GLOVES:	Neoprene, butyl, or nitrile rubber gloves are recommended.
EYE PROTECTION:	Recommend eye protection using safety glasses or goggles.
SKIN PROTECTION:	Suitable protective clothing to prevent skin contact
WORK/HYGIENE PRACTICES:	Avoid breathing vapor. Avoid contact with eyes. Wash hands after handling.
OTHER EQUIPMENT:	Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Yellow
PHYSICAL STATE:	Liquid
ODOR:	Solvent odor
ODOR THRESHOLD	No data available
PH	14
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	> 212 °F
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
DENSITY	8.69 lbs/gal
SPECIFIC GRAVITY	1.042
SOLUBILITY(IES)	100% Soluble
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available
VOC/VOLUME	< 4.0000 G?L

Section 10: Stability and Reactivity

Reactivity:	Not reactive
Chemical Stability:	Stable under normal temperatures and pressures
Possibility of Hazardous Reactions:	Will not polymerize
Conditions to Avoid:	Avoid sparks, flames, and other sources of ignition
Incompatibility (Materials to Avoid):	Cationic materials, strong oxidizers, strong acidic materials
Hazardous Decomposition Products:	CO and CO ₂

Section 11: Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50(Oral/Rat):	1746 mg/kg	Category 4	Ethylene glycol monobutyl ether
	LD50(Dermal/Rabbit):	516 mg/kg (avg.)	Category 3	Ethylene glycol monobutyl ether
	LC50(Inhalation/Rat):	2.2 mg/l	Category 2	Ethylene glycol monobutyl ether
Skin Corrosion/Irritation	Causes skin irritation		Category 2	Ethylene glycol monobutyl ether
Serious Eye Damage / Eye Irritation	Causes serious eye irritation		Category 2A	Ethylene glycol monobutyl ether



Respiratory or Skin Sensitization		Data not available		
Germ Cell Mutagenicity		Data not available		
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
	ACGIH	A3 – Confirmed animal carcinogen with unknown relevance to humans		Ethylene Glycol monobutyl ether
Reproductive Toxicity	Suspected of damaging fertility or the unborn child		Category 2	Ethylene glycol monobutyl ether
STOT -- Single Exposure	Causes damage to organs (central nervous system, blood, kidney, liver); May cause respiratory irritation		Category 1 (central nervous system, blood, kidney, liver), Category 3 (respiratory tract irritation)	Ethylene glycol monobutyl ether
STOT – Repeated Exposure	May cause damage to organs through prolonged or repeated exposure (blood)		Category 2 (blood)	Ethylene glycol monobutyl ether
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Toxicity

Section 12: Ecological Information

		Chemical Constituent
Toxicity:	LC50 > 116 mg/l Fish (Sheepshead minnow) 96 hr.	Ethylene glycol monobutyl ether
	LC50 > 130 mg/l Crustacea (Penaeus), 96 hr.	Ethylene glycol monobutyl ether
Persistence and degradability:	No information is available	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

Section 13: Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Section 14: Transport Information

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

RAIL TRANSPORT: Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

Section 15: Regulatory Information

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:



This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s):	Ethylene glycol monobutyl ether, Sodium hypochlorite
Pennsylvania hazardous substance code(s):	Ethylene glycol monobutyl ether, Sodium hypochlorite
New Jersey	Ethylene glycol monobutyl ether, Sodium hypochlorite

CANADA:

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

Section 16: Other Information

Initial issue date:	September 23, 2015
Final revision date:	November 12, 2015
Revision Number:	0
Revision explanation	Initial version
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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