

Product Name: **METALGUARD H50**SDS No.: 5041  
Issue Date: 09/03/2013  
Version No.: 10**SECTION 1: COMPANY AND PRODUCT IDENTIFICATION**

**Product Name:** METALGUARD H50  
*HVAC heat transfer fluid additive package*

**Company Name:** WEBA Technology Corp.  
1213 N. Sherman Ave #351  
Madison, WI 53704 USA

**For More Information Call:** Tel: 608-819-8806  
Fax: 608-237-2054  
msds@webacorp.com  
SDS on-line: www.webacorp.com

**In Case of Emergency Call:** CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day,  
7 Days/Week)

**SECTION 2: HAZARDOUS IDENTIFICATION****OSHA Hazards:** Corrosive, Target organ effect**Target Organs:** Kidney, Liver, Eyes, Skin mucous membranes, Respiratory system, Cardiovascular system**Signal Words:** Danger**Pictograms:****GHS Classification:**

Acute toxicity, Oral	Category 5
Skin corrosion	Category 1
Serious eye damage	Category 1

**GHS Label Elements, including precautionary statements:****Hazard Statements:**

H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage.

**Precautionary Statements:**

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

**Potential Health Effects**

Eyes	Causes severe eye burns.
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Ingestion	May be harmful if swallowed.

**NFPA Ratings**

Health	2
Flammability	0
Reactivity	0
Specific hazard	N/A

**HMIS Ratings**

Health	2
Fire	0
Reactivity	0
Personal	C

0 =minimal 1= slight 2=moderate 3= serious 4= severe

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Dipotassium Phosphate	<60	7758-11-4	N/A	K <sub>2</sub> HPO <sub>4</sub>	174.2 g/mol
Proprietary Ingredients & Inhibitors*	<10	Proprietary	Proprietary	Proprietary	Proprietary
Deionized Water	Balance	7732-18-5	231-791-2	H <sub>2</sub> O	18.00 g/mol

\*The specific chemical identifies and exact percentage of composition has been withheld as both constitute trade secrets of WEBA Technology. Chemicals listed are only those ingredients which are not trade secrets, are classified as health hazards and are present above their concentration limits.

**SECTION 4: FIRST-AID MEASURES**

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

\*All treatments should be based on observed signs and symptoms in the patient.

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## SECTION 5: FIRE-FIGHTING MEASURES

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Suitable (and unsuitable) extinguishing media	Product is not flammable. Use water, fog, foam, carbon dioxide or dry chemical on fires involving this product. Use appropriate media for adjacent fire. Cool unopened containers with water.
Special protective equipment and precautions for firefighters	Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Full protective equipment including self-contained breathing apparatus should be used during a fire. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.
Specific hazards arising from the chemical	Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers. May emit toxic fumes (oxides of phosphorus and potassium) under fire conditions. (See also Stability and Reactivity section).

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

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## SECTION 7: HANDLING AND STORAGE

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### Precautions for safe handling:

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

### Conditions for safe storage, including any incompatibilities:

Store in cool, dry well ventilated area. Store only in containers that are resistant to alkaline solutions. Keep away from incompatible materials (see section 10 for incompatibilities).

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational exposure controls:** Contains no substances with occupational exposure limit values.

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit  
 STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

#### Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield if splashing is likely to occur.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

#### Other Recommendations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Avoid contact with skin, eyes and clothing. Do not take internally. Clean up spills immediately. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear liquid.
Odor	Light chemical odor.
Odor threshold	Not Available
pH	10.0-11.0
Melting point/freezing point	Not Available
Initial boiling point and boiling range	>100 °C (>212 °F)
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	10 mmHg at 20 °C (68 °F)
Vapor density	>2.0 (air = 1)
Specific gravity	1.25-1.35 at 15.5 °C (60 °F)
Solubility (ies)	Completely soluble in water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Percent volatile by Volume	NIL

## SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Storage below 15.5 °C (60 °F) or above 65.5 °C (150 °F)

Incompatible Materials	Strong acids, oxidizers.
Hazardous Decomposition Products	Oxides of phosphorus and potassium.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

Skin	LD50 Dermal - rabbit - >5000 mg/kg
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral - rat - >4810 mg/kg

### Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

Skin	May cause irritation.
Eyes	Eye burns, watering eyes, redness. Destructive to eye tissue on contact.
Respiratory	Depending on the concentration and duration of exposure, may cause respiratory tract irritation, a burning sensation, shortness of breath. Vapor/fumes are not generated at significant levels until temperature is elevated.
Ingestion	Severe burns and tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Biodegradable.
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residues.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

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## SECTION 14: TRANSPORTATION INFORMATION

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US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

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## SECTION 15: REGULATORY INFORMATION

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TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard
SARA 312	Acute Health Hazard
SARA 313	Not Listed
WHMIS Canada	Not Listed

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## SECTION 16: OTHER INFORMATION

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**THIS Safety Data Sheet COVERS ALL OF THE FOLLOWING PRODUCTS:**

METALGUARD H50 (NO DYE) 474000

METALGUARD H50-EG (superseded by H50 product and this SDS)

METALGUARD H50-PG (superseded by H50 product and this SDS)

Revision	Date
Revision 1	09/03/2013

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