

# SAFETY DATA SHEET

Product Name: **METALGUARD A65**SDS No.: 601  
Issue Date: 03/02/2016  
Version No.: 13

## SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

**Product Name:** METALGUARD A65  
*Heavy-duty extended life antifreeze 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:**

|                    |            |
|--------------------|------------|
| Skin corrosion     | Category 1 |
| Serious eye damage | Category 1 |

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

**Hazard Statements:**

|      |  |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
|------|--|

**Precautionary Statements:**

|                |  |
|----------------|--|
| P260           | Do not breathe dusts or mists.   |
| P264           | Wash hands thoroughly after handling.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P301+P330+P331 | IF 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/shower.                              |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| 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/doctor/physician.   |
| P363           | Wash contaminated clothing before reuse.   |
| P405           | Store locked up.   |
| P501           | Dispose of contents/container in accordance with local regulations.  |

**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          | 3   |
| Flammability    | 0   |
| Reactivity      | 0   |
| Specific hazard | N/A |

**HMIS Ratings**

|            |   |
|------------|---|
| Health     | 3 |
| Fire       | 0 |
| Reactivity | 0 |
| Personal   | C |

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

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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| Component                    | Weight % | CAS #      | EINECS# / ELINCS# |
|------------------------------|----------|------------|-------------------|
| Boric Acid                   | 10-15    | 10043-35-3 | 233-139-2         |
| Sodium Benzoate              | <10      | 532-32-1   | 208-534-8         |
| Sodium Nitrate               | <10      | 7631-99-4  | 231-554-3         |
| Sodium Nitrite               | 10-20    | 7632-00-0  | 231-555-9         |
| Sodium Tolyltriazole         | 5-10     | 64665-57-2 | 265-004-9         |
| Potassium Hydroxide          | 15-25    | 1310-58-3  | 215-181-3         |
| Deionized Water              | 20-30    | 7732-18-5  | 231-791-2         |
| Antifoam                     | <1       | 9003-11-6  | N/A               |
| Dye (may be with or without) | <1       | N/A        | N/A               |

*The exact percentage of composition has been withheld as trade secrets of WEBA Technology. This is acceptable in accordance with Paragraph (i) of 29 CFR §1910.1200.*

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## SECTION 4: FIRST-AID MEASURES

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|            |  |
|------------|--|
| Eyes       | Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.   |
| 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 immediately. |
| Skin       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.            |
| Ingestion  | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.             |

*\*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 (nitrogen oxides, sodium oxides) 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:

|                     |                     |      |       |
|---------------------|---------------------|------|-------|
| Potassium Hydroxide | 2 mg/m <sup>3</sup> | CEIL | ACGIH |
|                     | 2 mg/m <sup>3</sup> | CEIL | NIOSH |
| Boric Acid          | 2 mg/m <sup>3</sup> | TLV  | ACGIH |
|                     | 6 mg/m <sup>3</sup> | STEL | ACGIH |

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 full body covering. 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 to slightly cloudy liquid with light yellow to amber color. |
| Odor  | Light chemical odor.  |
| Odor threshold                              | Not Available   |
| pH  | 13.0 - 14.0   |
| 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                            | 1.340 - 1.420 at 21 °C (70 °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 sodium and nitrogen.                          |

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### *Potassium Hydroxide*

|             |                        |
|-------------|------------------------|
| Skin        | Not Available          |
| Eyes        | Not Available          |
| Respiratory | Not Available          |
| Ingestion   | LD50 - Rat - 273 mg/kg |

#### *Sodium Tolyltriazole*

|             |               |
|-------------|---------------|
| Skin        | Not Available |
| Eyes        | Not Available |
| Respiratory | Not Available |
| Ingestion   | Not Available |

#### *Sodium Nitrate*

|             |               |
|-------------|---------------|
| Skin        | Not Available |
| Eyes        | Not Available |
| Respiratory | Not Available |

|           |   |
|-----------|---|
| Ingestion | LD50 Oral - rat - 1,267 mg/kg<br>LD50 Oral - rabbit - 2,680 mg/kg<br>LDLO Oral - Child - 22.5 mg/kg |
| Other     | LD50 Intravenous - mouse - 175 mg/kg  |

**Sodium Nitrite**

|             |  |
|-------------|--|
| Skin        | Not Available  |
| Eyes        | Not Available  |
| Respiratory | Not Available  |
| Ingestion   | LD50 Oral - rat - 157.9 mg/kg<br>LD50 Oral - mouse - 175 mg/kg |

**Sodium Benzoate**

|             |                               |
|-------------|-------------------------------|
| Skin        | Not Available                 |
| Eyes        | Not Available                 |
| Respiratory | Not Available                 |
| Ingestion   | LD50 Oral - rat - 2,100 mg/kg |

**Boric Acid**

|             |  |
|-------------|--|
| Skin        | Not Available  |
| Eyes        | Not Available  |
| Respiratory | Not Available  |
| Ingestion   | LD50 Oral - rat - 2660 mg/kg<br>LD50 Oral - mouse - 3450 mg/kg |

**Carcinogenicity**

|              |  |
|--------------|--|
| <b>IARC</b>  | 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. |
| <b>ACGIH</b> | 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.            |
| <b>NTP</b>   | 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.                 |
| <b>OSHA</b>  | 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               | Sodium nitrite can cause cyanosis, headache, dizziness, nausea and methemoglobinemia. |
| 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

#### Potassium Hydroxide

|                      |               |
|----------------------|---------------|
| Aquatic Vertebrate   | Not Available |
| Aquatic Invertebrate | Not Available |
| Terrestrial          | Not Available |

#### Sodium Tolyltriazole

|                      |               |
|----------------------|---------------|
| Aquatic Vertebrate   | Not Available |
| Aquatic Invertebrate | Not Available |
| Terrestrial          | Not Available |

#### Sodium Nitrate

|                      |   |
|----------------------|---|
| Aquatic Vertebrate   | LC50 - Gambusia affinis (Mosquito fish) - 6,650 mg/l - 96 h |
| Aquatic Invertebrate | EC50 - Daphnia magna (Water flea) - 6,000 mg/l - 24 h       |
| Terrestrial          | Not Available   |

#### Sodium Nitrite

|                      |   |
|----------------------|---|
| Aquatic Vertebrate   | LC50 - Oncorhynchus mykiss (rainbow trout) - 0.94 - 1.92 mg/l - 96.0 h<br>mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 0.54 mg/l - 96.0 h |
| Aquatic Invertebrate | EC50 - Daphnia magna (Water flea) - 12.5 mg/l - 48 h  |
| Terrestrial          | Not Available   |

#### Sodium Benzoate

|                      |   |
|----------------------|---|
| Aquatic Vertebrate   | LC50 - Pimephales promelas (fathead minnow) - 484 mg/l - 96 h |
| Aquatic Invertebrate | Not Available   |
| Terrestrial          | Not Available   |

#### Boric Acid

|                      |  |
|----------------------|--|
| Aquatic Vertebrate   | Fish: LC50 (Ptychocheilus lucius) - 279 mg/l (96 hr)<br>Fish: LC50 Lepomis macrochirus - 1021 mg/l (96 hr) |
| Aquatic Invertebrate | LC50 Daphnia magna - 53.2 mg/l (21 days)<br>EC50 Daphnia magna - 133 mg/l (48 hr)                          |
| 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  |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                                  |   |
|----------------------------------|---|
| <b>Waste Product or Residues</b> | 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 residue. |
| <b>Product Containers</b>        | 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.

## SECTION 14: TRANSPORTATION INFORMATION

|                  |  |
|------------------|--|
| US DOT           | UN1760, Corrosive liquids, n.o.s., (potassium hydroxide), 8, pg II |
| TDG              | UN1760, CORROSIVE LIQUIDS, N.O.S., (POTASSIUM HYDROXIDE), 8, PG II |
| IMDG             | UN1760, CORROSIVE LIQUIDS, N.O.S., (POTASSIUM HYDROXIDE), 8, PG II |
| Marine Pollutant | No   |
| IATA/ICAO        | UN1760, Corrosive liquids, n.o.s., (potassium hydroxide), 8, pg II |

## SECTION 15: REGULATORY INFORMATION

|                           |   |
|---------------------------|---|
| 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              | Class E: Corrosive material.                      |

## SECTION 16: OTHER INFORMATION

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

|                                |         |
|--------------------------------|---------|
| METALGUARD A65 (NO DYE)        | 477900  |
| METALGUARD A65-Y3 (YELLOW DYE) | 479200, |
| METALGUARD A65-Y4 (GOLD DYE)   | 479300  |
| METALGUARD A65-R3 (RED DYE)    | 479100  |

| Revision               | Date       |
|------------------------|------------|
| Revision 1, Version 10 | 09/03/2013 |
| Revision 1, Version 11 | 10/28/2013 |
| Revision 2, Version 12 | 04/20/2015 |
| Revision 3, Version 13 | 03/02/2016 |

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