# Whiting Systems, Inc.

Automated Vehicle Wash Systems  Industrial Power Wash Systems

# SAFETY DATA SHEET

**Issue Date** 22-Feb-2006 **Revision Date** 01-Feb-2013 **Version** 1

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** SmartWash WWA (Window Washer Antifreeze)

**Other means of identification**

**SDS #** WS-039

**UN/ID No** UN1230

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Window washer antifreeze.

**Details of the supplier of the safety data sheet**

**Supplier Address**
Whiting Systems, Inc.
9000 Highway 5 North
Alexander, AR 72002

**Emergency telephone number**

**Company Phone Number** 1-800-542-9031
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Classification**

| | |
|---|---|
| Acute toxicity - Oral | Category 3 |
| Acute toxicity - Dermal | Category 3 |
| Acute toxicity - Inhalation (Vapors) | Category 3 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 3 |
| Serious eye damage/eye irritation | Category 2A |
| Specific target organ toxicity (single exposure) | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 1 |
| Flammable liquids | Category 2 |

**Signal word**
**Danger**

**Hazard statements**
Toxic if swallowed
Toxic in contact with skin
Fatal if inhaled
Causes severe eye irritation
Causes damage to organs
Causes damage to organs through prolonged or repeated exposure
Highly flammable liquid and vapor

**Appearance** Blue liquid **Physical state** Liquid **Odor** Characteristic

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
Store locked up
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
Not Applicable
**Other Information**
Not Applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% | Trade Secret |
|---|---|---|---|
| Methanol | 67-56-1 | >75 | * |

## 4. FIRST AID MEASURES

**First aid measures**

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased, apply artificial respiration using oxygen and a suitable mechanical device such as a bag and mask. Call a physician immediately.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

**Ingestion** Rinse mouth. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

**Skin Contact** Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause nose and throat irritation, with possible central nervous system effects. Blindness may occur. Contact may cause irritation and redness. Direct eye contact may cause stinging, tearing and redness. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically. Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Alcohol resistant foam. Dry chemical. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media** Water may be ineffective in fighting fire.

**Specific hazards arising from the chemical**

Cool containers exposed to flames with water until well after the fire is out. Use a water spray or fog to reduce or direct vapors. Vapors may travel to source of ignition and flash back. Vapors may form explosive mixtures with air. Class 1B flammable liquid.

**Sensitivity to Static Discharge** Sensitive to static discharge.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Ventilate affected area. Remove all sources of ignition. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Methods for containment** Contain and recover liquid where possible. Use water spray to reduce vapors or divert vapor cloud drift.

**Methods for cleaning up** Use only non-sparking tools. Absorb spillage with non-combustible, absorbent material. Place in appropriate containers for disposal. Do not use combustible materials, such as saw dust. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking hand tools and explosion-proof electrical equipment. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Take precautionary
measures against static discharges. Protect container from physical damage. Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Do not flame, cut, braze weld or melt empty containers. Do not attempt to clean empty containers since residue is difficult to remove.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store away from incompatible materials. Outside or detached storage is preferable.

**Incompatible materials** Strong oxidizing agents. Nitrates. Perchlorates. Sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Methanol<br>67-56-1 | STEL: 250 ppm<br>TWA: 200 ppm<br>S* | TWA: 200 ppm TWA: 260 mg/m³ (vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m³<br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m³<br>(vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m³<br>STEL: 250 ppm<br>STEL: 325 mg/m³ |

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Provide sufficient mechanical ventilation to maintain exposure below TLV(s). Eyewash stations. Showers.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear approved safety goggles.

**Skin and body protection** Rubber, neoprene, or other impervious gloves are recommended to prevent skin contact. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** Where engineering measures are not feasible or to provide supplementary respirator protection, NIOSH certified full face piece supplied air respirators provide the highest protection. Where the use of supplied air respirators is not feasible, NIOSH certified full face piece air purifying respirators equipped with high efficiency filters may be used. All respirator use should be managed under a respiratory program meeting the requirements of 29 CFR 1910.134.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Blue liquid | **Odor** | Characteristic |
| **Color** | Blue | **Odor threshold** | Not determined |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | Not determined | |
| **Melting point/freezing point** | Not determined | |
| **Boiling point/boiling range** | 63.9 °C / 147 °F | |
| **Flash point** | 11 °C / 51.80 °F | |
| **Evaporation rate** | 5.9 | (butyl acetate = 1) |
| **Flammability (solid, gas)** | n/a-liquid | |
| **Flammability Limits in Air** | | |
| **Upper flammability limits** | 36 | |
| **Lower flammability limit** | 6.0 | |
| **Vapor pressure** | 97 mm Hg | @ 20 °C |
| **Vapor density** | 1.1 | (Air=1) |
| **Specific Gravity** | 0.8 | |
| **Water solubility** | Soluble in water | |
| **Solubility in other solvents** | Not determined | |
| **Partition coefficient** | Not determined | |
| **Autoignition temperature** | Not determined | |
| **Decomposition temperature** | Not determined | |
| **Kinematic viscosity** | Not determined | |
| **Dynamic viscosity** | Not determined | |
| **Explosive properties** | Not determined | |
| **Oxidizing properties** | Not determined | |

**Other Information**

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid**
Avoid all possible sources of ignition. Incompatible materials.

**Incompatible materials**

Strong oxidizing agents. Nitrates. Perchlorates. Sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

**Hazardous Decomposition Products**

Formaldehyde. Carbon monoxide. Carbon dioxide (CO2).

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Fatal if inhaled.

**Eye contact** Causes severe eye irritation.

**Skin Contact** Toxic in contact with skin.

**Ingestion** Toxic if swallowed.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Methanol<br>67-56-1 | = 5628 mg/kg ( Rat ) | = 15800 mg/kg ( Rabbit ) | = 83.2 mg/L ( Rat ) 4 h = 64000 ppm ( Rat ) 4 h |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**STOT - single exposure** Causes damage to organs.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity- Product**

Not determined

**The following values are calculated based on chapter 3.1 of the GHS document** .

| | |
|---|---|
| **ATEmix (oral)** | 133 mg/kg |
| **ATEmix (dermal)** | 400 mg/kg |
| **ATEmix (inhalation-gas)** | 133 mg/l |
| **ATEmix (inhalation-dust/mist)** | 0.7 mg/l |
| **ATEmix (inhalation-vapor)** | 4 mg/l |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Methanol<br>67-56-1 | | 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through | | |

**Persistence and degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**
Not determined.

| Chemical Name | Partition coefficient |
|---|---|
| Methanol<br>67-56-1 | -0.77 |

**Other adverse effects** Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Methanol<br>67-56-1 | | Included in waste stream:<br>F039 | | U154 |

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Methanol<br>67-56-1 | Toxic<br>Ignitable |

## 14. TRANSPORT INFORMATION

**DOT**

**UN/ID No** UN1230
**Proper shipping name** Methanol solution
**Hazard Class** 3
**Packing Group** II
**Reportable Quantity (RQ)** methanol 5000 lbs

**IATA**

| | |
|---|---|
| **UN/ID No** | UN1230 |
| **Proper shipping name** | Methanol solution |
| **Hazard Class** | 3 |
| **Subsidiary hazard class** | 6.1 |
| **Packing Group** | II |

**IMDG**

| | |
|---|---|
| **UN/ID No** | UN1230 |
| **Proper shipping name** | Methanol solution |
| **Hazard Class** | 3 |
| **Subsidiary hazard class** | 6.1 |
| **Packing Group** | II |

## 15. REGULATORY INFORMATION

**International Inventories**

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*
***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*
***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
***ENCS*** *- Japan Existing and New Chemical Substances* ***IECSC***
*- China Inventory of Existing Chemical Substances* ***KECL*** *-*
*Korean Existing and Evaluated Chemical Substances*
***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

| Chemical Name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Methanol - 67-56-1 | 67-56-1 | >75 | 1.0 |

**SARA 311/312 Hazard Categories**

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Methanol<br>67-56-1 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**US State Regulations**

| Chemical Name | California Proposition 65 |
|---|---|
| Methanol - 67-56-1 | Developmental |

**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Methanol<br>67-56-1 | X | X | X |

**U.S. EPA Label Information**

## 16. OTHER INFORMATION

**NFPA**

| Health hazards | Flammability | Instability | Special Hazards |
|---|---|---|---|
| Not determined | Not determined | Not determined | Not determined |

**HMIS**

| Health hazards | Flammability | Physical hazards | Personal protection |
|---|---|---|---|
| 1 | 3 | 0 | Not determined |

**Issue Date** 22-Feb-2006
**Revision Date** 01-Feb-2013
**Revision Note**
new format

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**