# MATERIAL SAFETY DATA SHEET

BUFFER-75 “Agricultural Buffering Agent”

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: BUFFER-75 “Agricultural Buffering Agent”**

| |
|---|
| **COMPANY NAME:** AG SPRAY, INC. |
| **ADDRESS:** PO BOX 12129, SALEM, OR 97309-0129 |
| **INFORMATION TELEPHONE:** 503-371-7907 |
| **EMERGENCY TELEPHONE:** 503-371-7907 |

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENTS | CAS # | % | OSHA PEL | ACGIH TLV |
|---|---|---|---|---|
| Phosphoric acid | 7664-38-2 | 75% | 1 mg/m3 TWA | 1 mg/m3 TWA<br>3 mg/m3 STEL |

## 3. HAZARDS IDENTIFICATION

| |
|---|
| **MOST IMPORTANT HAZARDS:** The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. |
| **SPECIFIC HAZARDS:** The substance is a medium strong acid. Reacts violently with bases. NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water. |

## 4. FIRST AID MEASURES

| | |
|---|---|
| **EYES:** | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| **SKIN:** | Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention. |
| **INGESTION:** | Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention. |
| **INHALATION:** | Fresh air, rest. Refer for medical attention. |

## 5. FIRE FIGHTING MEASURES

| |
|---|
| **SUITABLE EXTINGUISHING MEDIA:** Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool. If water is used, use in abundance to control heat and acid build-up. |
| **UNSUITABLE EXTINGUISHING MEDIA:** Not considered to be a fire hazard. |
| **SPECIAL HAZARDS IN FIRE:** On combustion, forms toxic fumes phosphorous oxides. |
| **REQUIRED SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. |

## 6. ACCIDENTAL RELEASE MEASURES

| |
|---|
| **PERSONAL PRECAUTIONS:** Use personal protective equipment as indicated in Section 8. |
| **ENVIRONMENTAL PRECAUTIONS:** Not listed as environmentally harmful. See Section 12. |
| **METHODS FOR CLEANING:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in section 8. Provide ventilation. Spill may be carefully neutralized with lime (calcium oxide, CaO). |

## 7. HANDLING AND STORAGE

| |
|---|
| **HANDLING:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. |
| **STORAGE:** Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Do not store in metal containers. Store protected from moisture. Store away from alkalies. |

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

| |
|---|
| **ENGINEERING MEASURES:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. |

**PERSONAL PROTECTION EQUIPMENT**

| | |
|---|---|
| **EYES:** | Wear chemical goggles and face shield. |
| **SKIN:** | Wear appropriate protective gloves and clothing to prevent skin exposure. |
| **RESPIRATORS:** | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **PH:** | 1.5 | **EXPLOSIVE PROPERTIES:** | NA |
| **BOILING POINT:** | 316° F | **VAPOR PRESSURE:** | .03 |
| **MELTING POINT:** | 70° F | **VAPOR DENSITY: (AIR=1)** | 3.4 |
| **FLASHPOINT:** | NE | **SOLUBILITY:** | miscible |
| **APPEARANCE AND ODOR:** Clear, colorless syrupy liquid. Odorless. | | **SPECIFIC GRAVITY:** | 1.69 |

## 10. STABILITY AND REACTIVITY

| |
|---|
| **CONDITIONS TO AVOID:** Incompatible materials. |
| **MATERIALS TO AVOID:** Stable. Incompatible with powdered metals, strong bases, iron-containing compounds. |
| **HAZARDOUS DECOMPOSITION PRODUCTS:** Phosphorus oxides may form when heated to decomposition. |

## 11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| **EYE CONTACT:** | Draize test, rabbit, eye: 119 mg Severe |
| **SKIN CONTACT:** | Draize test, rabbit, skin: 595 mg/24H Severe |
| **INGESTION:** | Oral rat LD50: 1530 mg/kg. Poses no human dietary risks. |
| **INHALATION:** | Inhalation, rat: LC50 = >850 mg/m3/1H; LC50 = 25.5 mg/m3. |
| **CARCINOGENICITY:** | Not listed by ACGIH, IARC, NTP, or CA Prop 65. |

## 12. ECOLOGICAL INFORMATION

Poses a potential hazard to the aquatic environment, due to its ability to change the pH of water.

## 13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## 14. TRANSPORT INFORMATION

US DOT Shipping Name: PHOSPHORIC ACID
Hazard Class: 8; UN Number: UN1805; Packing Group: III

## 15. REGULATORY INFORMATION

**SARA Title III Hazard Classes**

| | | | | |
|---|---|---|---|---|
| **Acute:** YES | **Chronic:** NO | **Fire:** NO | **Pressure:** NO | **Reactive:** NO |
| **CERCLA:** YES | | CAS# 7664-38-2 | | 5000 lb final RQ |
| **SARA 302:** NO | | NA | | NA |
| **SARA 313:** NO | | NA | | |

CAS# 7664-38-2 is listed as a Hazardous Substance under the CWA.
CAS# 7664-38-2 is listed on the TSCA inventory.
None of the chemicals in this product are considered highly hazardous by OSHA.

## 16. OTHER INFORMATION

**Manufacturer Disclaimer:** This information relates to the specific materials designated herein and may not be valid for such materials used in combination with any other material. The information contained in this document is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.

*Technical Material
NE - Not Established
< = Less than
NA - Not Applicable
> = More than

**NFPA Ratings:** Health: **3** Flammability: **0** Reactivity: **0**

DATE PREPARED: October 15, 2007

AGSPRAY
AGRICULTURAL SOLUTIONS