N/A-Not Applicable
N/D-Not Determined
N/E-Not Estimated

MATERIAL SAFETY DATA SHEET
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
(Non-Mandatory Form)
Forms Approved
OMB NO. 1218-0072

IDENTITY (As used on Label and List)
Guard

Note: Blank spaces are not permitted. If any item is not applicable, or information is available, the space must be marked to indicate that.

SECTION 1. Company Identification

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER
Monaghan Corp.	1-800-424-9300
ADDRESS	NUMBER FOR INFORMATION
2017 Dean Avenue	1-800-538-5802
Des Moines, Iowa 50317	Date Prepared: 3/3/06

SECTION 2. Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Names)	OSHA PEL	AGGIH TLV	OTHER LIMITS
Sodium Metasilicate Anhydrous CAS#6834-92-0	NA	NA	NA

SECTION 3. Hazardous Information

This product is not considered hazardous according to the US Department of Transportation.

SECTION 4. Physical Characteristics

Boiling Point: ND **Specific Gravity (H2O + 1):** NA **Vapor Pressure (mm Hg.):** NA **Melting Point:** NA **Vapor Density (Air =1):** NA
Evaporation Rate (Butyl Acetate =1): NA **Solubility In Water:** Complete **Appearance & Odor:** White powder with no odor.

SECTION 5. -Fire & Explosion & Hazard Data

Flash Point (Method Used): NA **Flammable Limits** NA **LEL:** NA **UEL:** NA **Extinguishing Media:** Not combustible. Not applicable.
Special Fire Fighting Procedures: Extinguish fire using agent suitable for surrounding fire. Use water spray to keep containers cool. Keep water away from direct contact with material.

SECTION 6. Reactivity Data

Stability: Slightly reactive **Conditions to Avoid:** Contact with acids, flammable liquids, organic halogen compounds, nitro compounds, and amphoteric metals such as aluminum, magnesium and zinc. **Incompatibility (Materials to Avoid):** Strong alkali. When in contact with water, may generate sufficient heat (with splattering) to ignite combustible materials. Reacts with some metals producing hydrogen, a flammable gas, when moist.
Hazardous Decomposition or Byproducts: None **Hazardous Polymerization:** Will Not Occur

SECTION 7. Health Hazard Data

Routes of Entry: **Eyes** X **Inhalation** X **Skin** X **Ingestion** X
Health hazard (Acute & Chronic) This product is corrosive. Causes severe eye and skin burns. Inhalation of mists and dusts can cause burns of the nasal passage, severe irritation of the respiratory tract and gastrointestinal tract damage. May cause pulmonary edema. Causes intense irritation and burns to the eyes and eyelids. Potential loss of sight. Intense irritation and burns reddening and swelling to the skin. Deep ulcerations, difficult to heal. Upon contact with product in solution, the skin becomes "soapy" to the touch. Intense irritation and burns to the mouth, throat, esophagus and stomach. Ingestion of concentrated solutions has caused death in animals and humans. **Carcinogenicity:** None **NTP** **IARC Monographs**

SECTION 8. First Aid Measures

Ingestion: IN ALL CASES, CALL A PHYSICIAN IMMEDIATELY. REQUEST AMBULANCE TRANSPORT TO NEAREST HOSPITAL. Do not attempt to give anything by mouth to an unconscious person. Treat for shock. **Eyes:** Immediately flush with a directed stream of water for at least 15 minutes holding the eyelid apart the ensure complete irrigation of the eye. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET IMMEDIATE MEDICAL ATTENTION. **Skin:** IMMEDIATELY flush thoroughly with cool water under shower while removing contaminated clothing and shoes. Discard non-rubber shoes. Wash clothing before reuse. GET IMMDEDIATE MEDICAL ATTENTION.
Inhalation: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 9. Precautions for Safe Handling & Use

Steps to be taken in case material is released or spilled: If spilled, steps should be taken to contain spill. Clean area of spill immediately. Follow protective measures provided under Control Measures in Section 10. **Precautions to be taken in handling or storing:** For best product performance store in cool, dry area. **Other Precautions:** Keep out of the reach of children.

SECTION 10. Control Measures

Respiratory Protection (Specify Type): NIOSH/MSHA approved respirator. **Protective Gloves:** Required **Eye Protection:** Required
Other Protective Clothing or Equipment: Recommended **Work/Hygienic Practices:** Clean all spills immediately. Observe personal hygiene.

SECTION 11. Toxicological Information

Prolonged exposure to high concentrations might cause ulceration of nasal passages and lung irritation.

SECTION 12. Ecological Information

There is limited information available on the environmental fate and effects of this material. It is micible in water. This compound is alkaline and may raise the pH of surface waters with low buffering capacity if spilled. Due caution should be exercised to prevent the accidental release of this material to the environment. In concentrated form this product may show trace levels of toxicity to aquatic organisms.

SECTION 13. Disposal Considerations

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

SECTION 14. Transportation Information

Shipping Class 55

SECTION 15. Regulatory Information

We request that you make all information in this Material Safety Data Sheet available to all employees.
SARA /TITLE III HAZARD CATEGORIES: If the word "yes" appears next to any category, this product may be reportable by you under the requirements of 40 CFR 370. Please consult those regulations for details. Immediate (Acute) Health: Yes
Delayed (Chronic) Health: No Fire Hazard: No Reactive Hazard: No Sudden Release of Pressure: No
HMIS HAZARD RATINGS: Health Hazard: 3 Fire Hazard: 0 Reactivity: 1
INTERNATIONAL REGULATIONS: Consult the regulations of the importing country.

SECTION 16. Other Information

MSDS LEGEND: CAS = Chemical Abstracts Service Registry Number
Ceiling Limit = Ceiling Limit (15 Minutes) OSHA = Occupational Safety and Health Administration
TLV = Threshold Limit Value (ACGIH) ACGIH = American Conference of Governmental Industrial Hygenists

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the user. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any federal, state, or local laws, rules, regulations or ordinances.