

Safety Data Sheet

Issued Date: October 22, 2015

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name F-409B Laundry Detergent with Bleach

Other means of identification

Product Code F-409B

Recommended use of the chemical and restrictions on use

Recommended Use Laundry detergent with bleach for industrial use.

Details of the supplier of the safety data sheet

Missouri Vocational Enterprises
 2727 Highway K
 Bonne Terre, MO 63628
 Phone: (573) 358-5516

Emergency Telephone Number

INFOTRAC 1-800-535-5053 (North America)
 1-352-323-3500 (International)

2. HAZARDOUS IDENTIFICATION

Signal Word **DANGER**

| Classification | Hazard Category |
|--|-----------------|
| Skin - Corrosion/Irritation | 1B |
| Eye - Damage /Irritation | 1 |
| Acute Toxicity - Oral | 4 |
| Specific Target Organ Toxicity - Single Exposure | 3 |

Health Hazard Statement(s)

H290 – May be corrosive to metals. H335 – May cause respiratory irritation.
 H302 – Harmful if swallowed.
 H314 – Causes severe skin burns and eye damage.
 H318 – Causes serious eye damage.

Hazard Pictogram(s)



Hazard Ratings

| | HMIS | NFPA |
|--------------|------|------|
| Health | 3 | 3 |
| Flammability | 0 | 0 |
| Reactivity | 1 | 1 |
| PPE | F | N/A |

Precautionary Statement(s)

P234 – Keep only in original container.
 P260 – Do not breathe dust or mists.
 P264 – Wash face, hands and any exposed skin thoroughly after handling.
 P270 – Do not eat, drink, or smoke when using this product.
 P271 – Use only outdoors or in a well-ventilated area.
 P273 – Avoid release to the environment.
 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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician.
 P391 – Collect spillage.
 P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
 P405 – Store locked up.
 P406 – Store in a corrosive resistant container with a resistant inner liner.
 P501 – Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

Potential Health Effects

Skin Contact May cause skin corrosion/irritation/burns.
Eye Contact May cause eye damage.
Inhalation May cause respiratory irritation.
Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

| Chemical Name/Pure Substance | CAS # | Weight-% |
|--------------------------------|------------|----------|
| Sodium Carbonate Anhydrous | 497-19-8 | 25-30 |
| Sodium Metasilicate Anhydrous | 6834-92-0 | 15-20 |
| Sodium Percarbonate | 15630-89-4 | 15-20 |
| Valfor 100 | 1318-02-1 | 10-15 |
| Nacconol 90G | 68081-81-2 | 10-15 |
| Acusol 445ND | 68479-09-4 | 1-5 |
| Sodium Carboxymethyl Cellulose | 9004-32-4 | 0-2 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

General Advice If you feel unwell, seek medical advice (show label where possible).
Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Skin Contact Brush off excess chemical and immediately flush contaminated areas with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects

Symptoms Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged contact may even cause severe skin irritation or mild burn.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media that is appropriate to local circumstances.

Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical

Components of this product may decompose upon heating to produce corrosive and/or toxic fumes.

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** Do not get in eyes, on skin, or on clothing. Avoid creation of dust. Avoid breathing dust. Do not eat, drink, or smoke in areas where this material is used. Wash thoroughly after handling. Wet material may pose a slipping hazard.
- Environmental precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

Methods and material for containment and clean up

- Methods for Containment** Prevent further leakage or spillage if safe to do so.
- Methods for Clean up** Shovel dry material into suitable container. Vacuum any remaining material into a suitable container. Liquid material may be removed with a vacuum truck. Wet material is slippery under foot.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only in well ventilated areas. Do not breathe dust. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
- Incompatible Materials** Can generate heat when mixed with acids. When wet, flammable hydrogen gas may be produced from prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|-----------------------|-------------------------|------------|
| Sodium Metasilicate Anhydrous (CAS 6834-92-0) | - | 2 mg/m ³ TWA | - |
| Sodium Percarbonate (CAS 15630-89-4) | 10 mg/m ³ | 15 mg/m ³ | - |
| Valfor 100 (CAS 1318-02-1) | 10 mg/m ³ | 15 mg/m ³ | - |
| Methanol (CAS 67-56-1) | 262 mg/m ³ | 260 mg/m ³ | - |
| Methyl Isobutyl Ketone (CAS 108-10-1) | 82 mg/m ³ | 410 mg/m ³ | - |

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear approved safety goggles.

Skin and Body Protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

| | | | |
|----------------|-------|----------------|----------------|
| Physical State | Solid | Odor | Tide |
| Color | White | Odor Threshold | Not Determined |

| | | |
|-----------------|---------------|-------------------------|
| <u>Property</u> | <u>Values</u> | <u>Remarks - Method</u> |
|-----------------|---------------|-------------------------|

| | | |
|------------------------------|----------------|-------------|
| pH | Approx. 11 | 1% solution |
| Melting Point/Freezing Point | Not determined | |
| Boiling Point/Boiling Range | Not determined | |
| Flash Point | Not determined | |
| Evaporation Rate | Not determined | |
| Flammability (Solid, Gas) | Non-Flammable | |
| Upper Flammability Limits | Not determined | |
| Lower Flammability Limits | Not determined | |
| Vapor Pressure | Not determined | |
| Vapor Density | Not determined | |
| Specific Gravity | Not determined | |
| Water Solubility | Complete | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto-ignition Temperature | Not determined | |
| Decomposition Temperature | Not determined | |
| Viscosity | Not determined | |
| Explosive Properties | Not determined | |
| Oxidizing Properties | Not determined | |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Reactivity | Not reactive under normal conditions. |
| Chemical Stability | Stable at normal temperatures and pressures. |
| Conditions to Avoid | Exposure to air or moisture over prolonged periods. |
| Incompatible materials | Can generate heat when mixed with acids. When wet, flammable hydrogen gas may be produced from prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc. Bases, reducing agents, and water. |
| Hazardous Decomposition Products | Sodium oxides. Carbon oxides. Sulfur oxides. Oxygen. |
| Hazardous Polymerization | Will not occur. |

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Toxicological data have not been determined specifically for this product.

12. ECOLOGICAL INFORMATION

Ectotoxicity

Ecological studies have not been determined specifically for this product.

13. DISPOSAL CONSIDERATIONS

| | |
|--|--|
| Disposal Instructions | Dispose of contents/container in accordance with local, regional, national, and international regulations. |
| Hazardous Waste Code | Not available. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. |
| Contaminated Packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. TRANSPORT INFORMATION

| | |
|---------------------------------|---|
| Note | Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. |
| DOT I.D. Number | Un3262 |
| DOT Proper Shipping Name | Corrosive solid, basic, n.o.s. |
| DOT Hazard Classes: | |
| US DOT | 8 |
| Road (ADR) | 8 |
| Air (ICAO/IMDG) | 8 |
| Sea (IMO/IMDG) | 8 |
| Packing Group | II |
| DOT Label | 8 |

15. REGULATORY INFORMATION

U.S. Federal Regulations

Contents of this SDS comply with OSHA Hazard Communication Standard CFR 1910.1200.

OSHA Hazard Communication Standard (29 CFR 1910.1200)

(X) Hazardous () Non- Hazardous

SARA TITLE III

Section 302/304

Section 311/312

Section 313

Extremely Hazardous Substances: None

(40CFR370) Hazardous Categories: Acute

Contains the following SARA 313 Toxic Release Chemicals: None

CERCLA

CERCLA Regulatory

This product contains the following ingredient(s) on the CERCLA hazardous substance list: Methyl Isobutyl Ketone (108-10-1).

State Regulations

California Prop 65

This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Methyl Isobutyl Ketone (108-10-1), Methanol (67-56-1).

Inventories

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|-------------------------------------|-------------------------|-----------------|---------------------------|-----------------|------------------|-----------------|------------------------|---------------------|
| Sodium Metasilicate (6834-92-0) | X | X | | | | | | |
| Sodium Carbonate (497-19-8) | X | X | X | X | X | X | X | X |
| Sodium Percarbonate (15630-89-4) | X | X | X | X | X | X | X | X |
| Nacconol 90G (68081-81-2) | X | X | X | X | X | X | X | X |
| Acusol 445ND (68479-09-4) | X | | | | | | | |

16. OTHER INFORMATION

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 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.

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