Safety Data Sheet

Issued Date: October 20, 2015 Revision Date: October 20, 2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name F-406 Automatic Laundry Detergent

Other means of identification

Product Code F-406

Recommended use of the chemical and restrictions on use

Recommended Use Detergent for use in automatic washing machines.

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.
H302 – Harmful if swallowed.
H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.
H335 – May cause respiratory irritation.
H401 – Toxic to aquatic life.

Hazard Pictogram(s)

Hazard Ratings

	HMIS	NFPA
Health	3	3
Flammability	0	0
Reactivity	0	0
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	55-60
Sodium Metasilicate Anhydrous	6834-92-0	5-10
Sodium Tripolyphosphate Anhydrous	7758-29-4	20-25
Valfor 100	1318-02-1	5-10
Sodium Carboxymethyl Cellulose	9004-32-4	1-5
T-DET LF 416	68987-81-5	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 for at least 15 total minutes.. 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. If vomiting occurs, give water to further dilute the chemical.

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: Water spray, dry chemical, foam.
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 Tripolyphosphate (7758-29-4)	10 mg/m^3 TWA (inhalable particles), 3 mg/m^3 TWA (respirable particles)	15 mg/m^3 TWA (total dust), 5 mg/m^3 TWA (respirable fraction)	-
Sodium Metasilicate Anhydrous (6834-92-0)	-	2 mg/m^3 TWA	-

Appropriate engineering controls

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. For limited exposure use a N95 dust mask.

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**	Odorless
Color	White	**Odor Threshold**	Not Determined

Property	Values	Remarks - Method
pH	Approx. 12	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. Dusting conditions. Extreme heat. Extreme humidity.
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. Strong oxidizing agents.
Hazardous Decomposition Products	Sodium oxides. Carbon oxides.
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 in accordance with local, regional, national, and international regulations.
Hazardous Waste Code	Not available.
Waste from residues / unused products	Reuse or recycle if possible. Dispose of in accordance with local, regional, national, and international regulations.
Contaminated Packaging	Dispose of in accordance with local, regional, national, and international regulations.

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, 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	Extremely Hazardous Substances: None.
Section 311/312	(40CFR370) Hazardous Categories: Acute.
Section 313	Contains the following SARA 313 Toxic Release Chemicals: None.

CERCLA

CERCLA Regulatory	Based on the information supplied this product contains no substances regulated under CERCLA.

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: None based on information supplied.

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 Tripolyphosphate (7758-29-4)	X	X	X		X		X	
Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	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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