Safety Data Sheet

Issued Date: June 22, 2015 Revision Date: June 22, 2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name F-434A Household Fabric Softener & Sanitizer

Other means of identification

Product Code F-434A

EPA Reg. No. 1839-107-37697

Recommended use of the chemical and restrictions on use

Recommended Use In household type washing machines by application to final rinse.

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
Flammable liquids	3
Acute Toxicity, oral	4
Acute Toxicity, inhalation	2
Skin corrosion/irritation	1
Serious eye damage/eye irritation	1
Specific target organ toxicity, single exposure	2
Hazardous to the aquatic environment, acute hazard	1
Hazardous to the aquatic environment, long-term hazard	1

Health Hazard Statement(s)

H226 – Flammable liquid and vapor.
H301 – Toxic if swallowed.
H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.
H330 – Fatal if inhaled.
H371 – May cause damage to organs.
H410 – Very toxic to aquatic life with long lasting effects.

Hazard Pictogram(s)

Hazard Ratings

	NFPA
Health	3
Flammability	3
Reactivity	0
PPE	N/A

Precautionary Statement(s)

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 – Keep container tightly closed.

P240 – Ground/bond container and receiving equipment.
P241 – Use explosion-proof electrical/ventilation/lighting equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P260 – Do not breathe mist or vapor.
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.
P284 – Wear respiratory protection.
P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P320 – Specific treatment is urgent (see this label).
P363 – Wash contaminated clothing before reuse.
P370+P378 – In case of fire: Use appropriate media to extinguish.
P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
P403+P235 – Store in a well-ventilated place. Keep cool.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects

Skin Contact May cause severe skin burns.
Eye Contact May cause serious eye damage.
Inhalation May be fatal when inhaled.
Ingestion May be toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name/Pure Substance	CAS #	Weight-%
Methyl-1-tallow imidazoliunium	68122-86-1	20-23
Alkyl (68% C12, 32% C14)dimethyl ethylbenzyl ammonium chloride	85409-23-0	10-20
Alkyl dimethyl benzyl ammonium	68391-01-5	10-20
Isopropanol	67-63-0	10-15
Ethanol	64-17-5	1-5

**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 Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact, lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim

inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician immediately.

Ingestion Call a POISON CENTER or doctor/physician immediately. Rinse mouth. Do not induce vomiting.

Most important symptoms and effects

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Special Treatment If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water fog, foam, dry chemical powder, carbon dioxide (CO_2)

Unsuitable Extinguishing Media: Do not use water jet as extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

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. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Flammable liquid and vapor.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of this SDS.

Environmental precautions Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

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 Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools.
Large spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later

disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

7. HANDLING AND STORAGE

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store, or open near an open flame, sources of heat, or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe vapor. Do not get this material in contact with eyes or skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink, or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50 °F or higher than 120 °F. Store locked up. Keep away from heat, sparks, and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of this SDS). Keep in an area equipped with sprinklers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH	OSHA	NIOSH
Ethanol (CAS 64-17-5)	STEL: 1000 ppm	PEL: 1900 mg/m^3 1000 ppm	TWA: 1900 mg/m^3 1000 ppm
Isopropanol (CAS 67-63-0)	STEL: 400 ppm TWA: 200 ppm	PEL: 980 mg/m^3 400 ppm	STEL: 1225 mg/m^3, 500 ppm TWA: 980 mg/m^3, 400 ppm

Appropriate engineering controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin and Body Protection	Wear appropriate chemical resistant clothing and gloves.
Respiratory Protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA).

General Hygiene Considerations	Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Liquid	**Odor**	Not Determined
Color	Not Available	**Odor Threshold**	Not Determined

Property	Values	Remarks - Method
pH	3.5-5.5	10% solution, 1:1 Isopropanol
Melting Point/Freezing Point	Not available	
Boiling Point/Boiling Range	212 °F (100 °C)	
Flash Point	92 °F (33.3 °C)	Pensky-Martens Closed Cup
Evaporation Rate	Estimated slower than ethyl ether	
Flammability (Solid, Gas)	Liquid- Not applicable	
Upper Flammability Limits	Not available	
Lower Flammability Limits	Not available	
Vapor Pressure	Not available	
Vapor Density	Estimated heavier than air	
Specific Gravity	8.05 lbs./gal.	
Water Solubility	Not available	
Solubility in other solvents	Not available	
Partition Coefficient	Not available	
Auto-ignition Temperature	Not available	
Decomposition Temperature	Not available	
Viscosity	Not available	
Explosive Properties	Not available	
Oxidizing Properties	Not available	

10. STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions.
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Anionic surfactants.
Hazardous Decomposition Products	Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
Hazardous Polymerization	No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact	Causes serious eye damage.
Skin contact	Causes severe skin burns.
Ingestion	Harmful if swallowed.
Inhalation	Not likely, due to the form of the product.

Symptoms related to the physical, chemical, and toxicological	Burning pain and severe corrosive skin damage. Causes serious eye damage.

characteristics

Carcinogenicity	Not considered to be a carcinogen.
Reproductive toxicity	Not expected to cause reproductive harm.
Acute toxicity	Fatal if inhaled. Toxic if swallowed.

Product	Dermal LD50	Inhalation LC50	Oral LD50
SO/SAN 30M	>2000 mg/kg (Rabbit)	0.054-0.51 mg/L (Rabbit)	>500 mg/kg (Rat)

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not expected to cause respiratory or skin sensitization.
Germ cell mutagenicity	No data to indicate any mutagenicity or genotoxicity.
Specific target organ toxicity	May cause damage to organs.

12. ECOLOGICAL INFORMATION

Ectotoxicity — Very toxic to aquatic life with long lasting effects.

Product	Fish
Methyl-1-tallow amidoethyl-2-tallow imidazolinium Me sulfates (CAS 68122-86-1)	65 ppm, 96 h Fish LC50
Isopropanol (CAS 67-63-0)	>1400 mg/L, 96 h Bluegill LC50

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Other adverse effects	No other adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions	Dispose of in accordance with local, regional, national, and international laws and regulations.
Hazardous Waste Code	Waste code should be assigned between the user, the producer, and the waste disposal company.
Waste from residues / unused products	Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
Contaminated Packaging	Container Disposal: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse empty container with water. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

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	UN2920
DOT Proper Shipping Name	Corrosive Liquid, Flammable, N.O.S. (Quaternary Ammonium Chloride, Isopropanol)
DOT Hazard Classes: US DOT	8

Road (ADR)	8
Air (ICAO/IMDG)	8
Sea (IMO/IMDG)	8
Packing Group	III
DOT Label	Corrosive and Flammable

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: No
Section 311/312	(40CFR370) Hazardous Categories: Immediate and fire hazard.
Section 313	Contains the following SARA 313 Toxic Release Chemicals: 1,4-dioxane (CAS 123-91-1).

CERCLA

CERCLA Regulatory	Not regulated

State Regulations

Component	Pennsylvania RTK	Massachusetts RTK	Rhode Island RTK
Ethanol (CAS 64-17-5)	X	X	
Isopropanol (CAS 67-63-0)	X	X	X

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: Methanol (CAS 67-56-1) and 1,4-dioxane (CAS 67-56-1).

Inventories

Counrty(s) or Region	Inventory Name	On Inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Exsiting Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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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Prepared By:	Ryan AuBuchon, Chemist I