F-109A

Safety Data Sheet

Issued Date: November 4, 2015 Revision Date: November 4, 2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name F-109A Window & Mirror Cleaner

Other means of identification

Product Code F-109A

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning windows, glass, and non-metal hard surfaces.

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	2
Serious Eye Damage/Irritation	1
Skin - Corrosion/Irritation	1
Acute Toxicity – Oral	4
Specific Target Organ Toxicity - Single Exposure	3
Hazardous to the Aquatic Environment. Acute Hazard	1

Health Hazard Statement(s)

H225 – Highly flammable liquid and vapor. H335 – May cause respiratory irritation.

H227 - Combustible liquid. H336 – May cause drowsiness or dizziness. H302 – Harmful if swallowed.

H411 – Toxic to aquatic life with long-lasting effects.

H314 – Causes severe skin burns and eye damage.

Hazard Pictogram(s)

Hazard Ratings

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	HMIS	NFPA
Health	3	3
Flammability	3	3
Reactivity	0	0
PPE	В	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/ventilating/lighting equipment.

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P242 – Use only non-sparking tools.

P243 – Take precautionary measures against static discharge.

P260 – Do not breathe dust/fume/gas/mist/vapors/spray.

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+P310 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P363 – Wash contaminated clothing before reuse.

P403+P235 – Store in a well-ventilated place. Keep cool.

P405 – Store locked up.

P501 – Dispose of contents/container to an approved waste disposal plant.

Potential Health Effects

Inhalation

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 #		
Water	7732-18-5	75-80	
Isopropanol	67-63-0	10-15	
Eastman DE Solvent	111-90-0	2-5	
Aqua Ammonia	1336-21-6	0-2	
Trilon B Liquid BASF MTL	64-02-8	64-02-8 0-2	
Sodium Xylene Sulfonate	1300-72-7	0-2	
Plurafac S 405 LF	68987-81-5	0-1	

^{**}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).

Immediately flush eyes with water, remove contact lenses, if present, after the first 5 Eye Contact

> minutes, and then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay. Suitable emergency eye wash facility should be immediately available.

Skin Contact Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered

by qualified personnel. 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.

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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. Coughing. Headache, dizziness, fatigue, drowsiness, and lack of coordination.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Alcohol resistant foam, water fog, dry chemical powder, or carbon dioxide. Unsuitable Extinguishing Media: Water jet.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Isolate area. Keep unnecessary personnel from entering the area. Keep

upwind of spill. Ventilate area of spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Vapor explosion hazard. Check with combustible gas detector

before reentering area. Use appropriate safety equipment.

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways, and/or

groundwater.

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 Contain spilled material if possible. Ground and bond all containers and

handling equipment. Pump with explosion proof equipment. If available, use foam to smother or suppress. Collect in suitable and properly labeled

containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat, sparks, and flames. Avoid contact with eyes. Avoid breathing vapor. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. No smoking, open flames, or sources of ignition in handling and storage areas. Electrically bond and ground all containers and equipment before transfer or use of material. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Never use air pressure for transferring product.

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Conditions for safe storage, including any incompatibilities

Storage Conditions Minimize sources of ignition, such as static build-up, heat, spark, or flame. Keep

container closed. Flammable mixtures may exist within the vapor space of containers

at room temperature. Store in a well-ventilated place.

Strong acids, strong oxidizing agents. **Incompatible Materials**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropanol (67-63-0)	200 ppm TWA 400 ppm STEL	400 ppm TWA	-
Aqua Ammonia (1336-21-6)	35 ppm STEL 25 ppm TWA	50 ppm PEL	35 ppm STEL 25 ppm TWA
Sodium Hydroxide (1310-73-2)	2 mg/m³ Ceiling	2 mg/m³ PEL	2 mg/m³ Ceiling

Appropriate engineering controls

Apply technical measures to comply with the occupational exposure limits.

Explosion-proof general and local exhaust ventilation. Ventilation rates **Engineering Controls**

should be matched to conditions.

<u>Individual protection measures, such as personal protective equipment</u>

Eye/Face Protection Wear approved safety glasses with side shields (or goggles) and a face shield.

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

contact.

If engineering controls do not maintain airborne concentrations below Respiratory Protection

recommended exposure limits or to an acceptable level, an approved

respirator must be worn.

Do not eat, drink, or smoke when using this product. Wash contaminated General Hygiene Considerations

clothing before reuse. Handle in accordance with good industrial hygiene

and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid Odor Ammonia Color Blue Odor Threshold Not Determined

Property Values Remarks - Method

11-12 pΗ

Melting Point/Freezing Point Not determined Boiling Point/Boiling Range Not determined Flash Point Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) Flammable **Upper Flammability Limits** Not determined Lower Flammability Limits Not determined Vapor Pressure Not determined Vapor Density Not determined

Specific Gravity 0.98 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 Window & Mirror Cleaner F-109A Revision Date: November 4, 2015

Explosive Properties Not determined **Oxidizing Properties** Not determined

STABILITY AND REACTIVITY

Reactivity None known.

Chemical Stability Stable under recommended storage conditions.

Avoid heat, sparks, open flames, and other ignition sources. Avoid Conditions to Avoid

temperatures exceeding the flash point.

Strong acids. Strong oxidizers. Halogens. Aldehydes. Incompatible materials

Hazardous Decomposition

Products

Carbon oxides. Nitrogen oxides. Sulfur 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 carried out on this product.

13. DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal **Disposal Instructions** site. Do not allow this material to drain into sewers/water supplies. Do not

contaminate ponds, waterways, or ditches with chemical or used container.

Hazardous Waste Code Not available.

Waste from residues / unused

products

Dispose of in accordance with local, regional, national, and international

laws and regulations.

Since emptied containers may retain product residue, follow label warnings Contaminated Packaging

even after container is emptied. Empty containers should be taken to an

approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, Note

including exemptions and special circumstances.

DOT I.D. Number **DOT Proper Shipping Name**

DOT Hazard Classes:

Not available. Combustible Liquid

US DOT 3 3 Road (ADR) 3 Air (ICAO/IMDG) Sea (IMO/IMDG) 3 **Packing Group** Ш **DOT Label** 8,3

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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: Fire, Acute, Chronic

Section 313 Contains the following SARA 313 Toxic Release Chemicals: Isopropanol (67-

63-0), Ammonium Hydroxide (1336-21-6)

CERCLA

CERCLA Regulatory Sodium Hydroxide (1310-73-2) and Ammonium Hydroxide (1336-21-6)

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 known based on information supplied.

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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