SAFETY DATA SHEET

Revision Date 7-August-2015 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name F-2369 Electronics Cleaner
UN Code UN1206
Product Code F-2369

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Vehicle Wash

Details of the Supplier of the Safety Data Sheet

Supplier Address
Delta Foremost Chemical Corporation
3915 Air Park St.
Memphis, Tennessee 38118

Emergency Telephone Number

Company Phone Number (901) 363-4340
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Flammable Liquid	Category 2
Skin Irritation	Category 2
Specific Target Organ toxicity (single exposure) (central nervous system)	Category 3
Aspiration Hazard	Category 1
Acute Aquatic toxicity	Category 1
Chronic Aquatic toxicity	Category 1

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
May cause drowsiness or dizziness
Very toxic to aquatic life with long lasting effects

Appearance Clear liquid **Physical State** Liquid **Odor** Solvent

Precautionary Statements - Prevention

Keep away from heat, sparks, open flames, and hot surfaces. No smoking
Keep container tightly closed
Ground or bond container and receiving equipment
Use explosion-proof electrical, ventilating, lighting, and equipment.
Use only non-sparking tools
Take precautionary measures against static discharge
Avoid breathing dust, fumes, gas, mist, vapors, or spray
Wash skin thoroughly after handling
Use only outdoors or in a well-ventilated area
Avoid release to the environment
Wear protective gloves, eye protection, and face protection

Precautionary Statements - Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Contact a poison center or physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a poison center or physician.
If skin irritation occurs: seek medical advice
In case of fire: Use dry sand, dry chemical, or alcohol resistant foam for extinction.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated space. Keep container tightly closed. Keep container cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant. Collect spillage.

Hazards Not Otherwise Classified (HNOC)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Heptane	142-82-5	Proprietary
Isopropyl Alcohol	67-63-0	Proprietary

4. FIRST AID MEASURES

First Aid Measures

General Advice Move out of dangerous area. Seek medical attention and provide this SDS to medical personnel for treatment.

Eye Contact Flush eyes with water as precaution for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physican.

Inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention immediately.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Causes mild skin & eye irritation. Aspiration hazard.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Carbon oxides. Flash back possible over considerable distances.

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. Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For PPE information see section 8.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material. Do not let enter drains. Discharge into the environment must be avoided.

Methods for Cleaning Up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. (see Section 13)

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition. – No smoking. Take measures to prevent the buildup of electrostatic charge. Fore precautions see Section 2.2.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store under inert gas. Keep container tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

Incompatible Materials None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Heptane 142-82-5	TWA: 400ppm STEL: 500ppm	TWA: 500ppm	TWA: 85ppm TWA: 350mg/m3
Isopropyl Alcohol 6763-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m^3 STEL: 500 ppm STEL: 1,225 mg/m^3	IDLH: 500 ppm IDLH: 1,225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3

Appropriate Engineering Controls

Engineering Controls Ventilation must be adequate. Eyewash stations, Showers. Wash hands before breaks and at the end of the workday.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Splash goggles or safety glasses. Use eye or face protection approved under appropriate government standards such as NIOSH or EN 166.

Skin and Body Protection Wear protective Nitrile™ gloves. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wear complete chemically protective suit. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate us a full-face respirator with multi-purpose combination or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid		
Appearance	Clear Liquid	**Odor**	Solvent
Color	Water white	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	Not applicable.	
Melting Point/Freezing Point	Not available	
Boiling Point/Boiling Range	98.88 °C / 210 °F	
Flash Point	-3.99 °C / 24.82 °F closed cup	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	7%(V)	
Lower Flammability Limit	1.1%(V)	
Vapor Pressure	110.7 hPa @ 99.9 °F 53.3 hPa @ 68.0 °F	
Vapor Density	Not established	
Specific Gravity	0.684 g/mL @ 77 °F	(1=Water)
Water Solubility	Insoluble in water	
Solubility in Other Solvents	Not determined	

Partition Coefficient	Log Pow: >3.000
Autoignition Temperature	223.0 °C / 433.4 °F
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Vapors may form explosive mixture with air.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Heat, flames, and sparks.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
None known based on information supplied. In the event of fire: see Section 5.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact May cause eye irritation.

Skin Contact Causes mild skin irritation.

Inhalation Irritating to the respiratory system.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Heptane 142-82-5	-	-	= 103,000 mg/m3 (Rat) 4 h
Isopropyl Alcohol 6763-0	= 5,045 mg/kg (Rat)	= 12,800 mg/kg (Rabbit)	= 16,000 ppm (Rat) 8 h

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH, NTP, OSHA, or IARC.
Germ Cell Mutagenicity
No data available
Reproductive toxicity
No data available
Specific target organ toxicity – single exposure
May cause dizziness or drowsiness
Specific target organ toxicity – repeated exposure
No data available
Aspiration hazard
May be fatal if swallowed and enters airways
Additional information
RTECS: MI7700000
Prolonged or repeated exposure to skin causes defatting and dermatitis, central nervous system depression, narcosis, and damage to the lungs. Stomach irregularities have been reported based on human evidence.

Numerical Measures of Toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Heptane 142-82-5		4 mg/l – 24 h Carassius auratus (goldfish) – LC50 375mg/l – 96 h Tilapia mossambica – LC50		1.5 mg/l – 48 h Daphnia magna (water flea) EC50
Isopropyl Alcohol 6763-0	>2,000: 72 h Desmodesmus subspicatus (green algae) mg/L EC50 >1,000: 24 h Algae mg/L EC50	9,640: 96 h Pimephales promelas mg/L LC50 static	EC50 = 5,102 mg/L 24 h Daphnia magna (Water flea)	-

Persistence and Degradability
Ratio BOD/ThBOD 3.5% (Heptane)

Bioaccumulation
Bioaccumulation of Heptane is possible.

Mobility
No data available

Other Adverse Effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Do not empty into drains. Avoid release into the environment.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol 6763-0	Ignitable Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No.	UN1206
Proper Shipping Name	Heptanes
Hazard Class	3
Packing Group	II

IATA

UN/ID No.	UN1206
Proper Shipping Name	Heptanes
Hazard Class	3
Packing Group	II

IMDG

UN/ID No	UN1206
Proper Shipping Name	Heptanes
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Not Determined

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

CERCLA

This material contains no Reportable Quantity (RQ) Substances.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol	67-36-0	Proprietary	1.0

SARA 311/312 Hazards
Fire hazard, acute health hazard, and chronic health hazard.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol 6763-0	X	X	X
Heptane 142-82-5	X	X	X

California Prop. 65 Components
This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm.

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	3	0	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	2	3	0	Not determined

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Revision Note New format

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 a 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.

End of Safety Data Sheet