

Material Safety Data Sheet

Flamecheck FIF – Clear Flame Resistant Varnish

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1. Substance/Preparation And Company Identification

Company

Flamecheck International Ltd.
150 S Houghton Rd Ste 120
Tucson, AZ 85748 USA
Telephone: 520-204-1053

Emergency Phone Number: 800-424-9300 (Chemtrec)

Product Name:

Flamecheck FIF – Clear Flame Resistant Solvent based SparVarnish

2. Composition/Information On Ingredients

Ingredient	W/W%	CAS No	PEL
Toluene	<19	108-88-3	200ppm
Acrylic Polymer	<20	N/A	300ppm
FR Blend	<40	N/A	N/A

3. Hazard Identification

Poison! Danger! Harmful or Fatal if swallowed. Harmful if inhaled or absorbed through skin. Vapor harmful and Flammable as both liquid and vapor. May affect liver, kidneys, blood system or central nervous system. Causes irritation to skin, eyes and respiratory tract.

LD50 LC50 Mixture: None specified by manufacturer.

Route of Entry –

Inhalation: yes

Skin: yes

Ingestion: yes

Carcinogenicity –

NTP: no

IARC: no

OSHA: no

Effects of Exposure:

Acute: Eye: severe irritation, redness, tearing and blurred vision.

Skin: prolonged/repeated exposure can cause moderate irritation, de-fatting and dermatitis.

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea and headache. High concentrations may result in narcosis (central nervous system depression).

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and effects of overexposure.

Explanation of Carcinogenicity: Not relevant.

Signs and Symptoms of Overexposure:

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Health hazard: diarrhea. Aspiration of material into lungs can cause chemical pneumonia which can be fatal.

Medical Conditions Aggravated by Exposure: None known or specified by manufacturer.

4. First aid measures

Eye: Flush with clean, lukewarm water for at least 15 minutes, occasionally lifting eyelids. Obtain medical attention.

Skin: Remove contaminated clothing. Wash affected skin areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse.

Inhalation: Remove to fresh air. Apply artificial respiration/administer oxygen if necessary. Call physician immediately.

Ingestion: Keep person warm and quiet. Get immediate medical attention. Do not induce vomiting because of risk of aspiration of material into lungs

5. Fire-Fighting Measures

Flammability Summary (OSHA)

Flash Point Method: SCC
Flash Point: 105° F, 41° C

When in mineral spirit base:

Upper Flammable/Explosive Limit, % in air: 7%

Lower Flammable/Explosive Limit, % in air: 1%

When dry:

Upper Flammable /explosive limit, % in air: NA

Lower Flammable / explosive limit, % in air: NA

Unusual Fire/Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed.

Extinguishing Media: Use foam, carbon dioxide or chemical fire fighting apparatus.

Fire Fighting Instructions: Wear NIOSH/MSHA approved SCBA and full protective equipment. Water spray may be used for cooling containers to prevent possible pressure build up and auto ignition/explosion when exposed.

6. Accidental Release Measures

Evacuate the area of all unnecessary personnel. Eliminate any ignition sources. Ventilate area. Equip employees with appropriate protective equipment. Dike around spilled material. Cover spill with inert/absorbent material and shovel with non-sparking tools into container. Remove containers to safe area and seal.

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Neutralizing Agent: None specified by manufacturer.

Waste Disposal Methods: Waste material must be disposed of in accordance with federal, state and local environmental regulatory controls.

7. Handling And Storage

Handling:

Drums: Protect against physical damage. Outside or detached storage preferred.

Bulk: Storage should be in standard flammable liquid storage tanks.

Other Precautions: All equipment should be grounded and bonded to reduce static electricity hazard. Use non-sparking tools.

8. Exposure Controls and Personal Protection

Respiratory Protection:

Use NIOSH/MSHA approved self-contained breathing apparatus where vapor concentration may be above TLV limits. Below TLV limits use NIOSH/MSHA approved vapor respirator or an air line respirator with escape bottle provisions.

Ventilation:

Local exhaust must be sufficient to keep airborne vapor concentrations below TLV limit. Exhaust air may need to be cleaned by scrubbers.

Protective Gloves:

Chemical resistant gloves.

Eye Protection:

Chemical workers' goggles.

Other Protective Equipment:

Eye bath and safety shower. To prevent repeated or prolonged skin contact wear impervious clothing and boots.

Work Hygiene Practices:

None specified by manufacturer.

Supplemental Safety and Health:

First aid procedures: Vomit can cause chemical pneumonia which can be fatal.

Ventilation: Filters to reduce environmental contamination.

Effects of overexposure: Doses producing maternal toxicity also showed embryonic / fetotoxic effects.

9. Physical and Chemical Properties

Physical State: Liquid

Color: Slight

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Odor:	Mild
Solubility in Water:	Negligible
Specific Gravity:	1.10 approx.
Vapor Density (Air=1)	7.77
Vapor Pressure (@68 Deg. F):	2.33
Dry Time (Butyl acetate=1):	8.00
Volatiles % by vol.:	34.00
Boiling Point:	280° F, 138° C

10. Stability and Reactivity

Stability and Reactivity Summary:

Stable under normal conditions

Reactive Properties:

Sensitivity to mechanical shock:	None
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Spark and flame
Chemical Incompatibility:	Strong oxidizing agents
Hazardous Decomposition Products:	CO, CO ₂

11. Toxicological Information

None

12. Ecological Information

Environmental Toxicity: No information found.

13. Disposal Considerations

Care must be taken to avoid environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws.

Waste Disposal Summary:

Product as made has none of the characteristics of hazardous waste

Disposal Methods:

Dispose of in accordance with local, state and federal regulations. Incineration is preferred.

Components subject to land ban restrictions:

No components subject to land ban restrictions. Do not release to environment without appropriate permits.

14. Transport Information

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	
UN1263, Paint, 3, PGIII, (Varnish), ERG130	
Labels required per 49 CFR 172.101:	Flammable

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15. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Pesticide acceptance indication: US EPA Registration Number: Not applicable.

Superfund Amendments and Reauthorization Act (SARA) Title III

Section 302 Extremely Hazardous Substances List Threshold Planning Quantity: To the best of our knowledge, this product contains no listed substances.

Sections 311/312 Hazard Categories (40 CFR 370.2):

Immediate/Acute Health Hazard:	Yes
Delayed/Chronic Health Hazard:	Yes
Fire Hazard:	Yes
Pressure Hazard:	No
Reactivity Hazard:	No

Section 313 Toxic Chemicals List: Contains the following listed components:

Toluene, CAS 108-88-3

Benzene, CAS 71-43-2

Ethylene dichloride, CAS 107-06-2, <0.2%

Comprehensive Response, Compensation, and Liability Act (CERCLA)

Contains the following listed substances: Toluene, CERCLA RQ 1000 lbs

State Right-to-Know Regulations Status of Ingredients

Pennsylvania: No information

New Jersey: No information

Massachusetts: No information

16. Other Information

Recommended for industrial use only.

This information should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to its use. No warranties of any kind neither express nor implied, including warranties of merchantability or fitness for a particular purpose are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, information, data and designs furnished by Flamecheck International Ltd. hereunder are given gratis and Flamecheck International Ltd. assumes no obligation or liability for the description, information, data and designs given or results obtained, all such being given and accepted at your risk. We believe this information to be reliable and up to date as of its publication date, but make no warranty that it is. If this MSDS is more than three years old you should contact the supplier to make sure the information is still current.

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