



MATERIAL SAFETY DATA SHEET

SECTION I — Chemical Product and Company Identification

PRODUCT IDENTIFICATION:

Duraflame® flue-renew™ Chimney Maintenance Firelogs

DISTRIBUTOR'S NAME AND ADDRESS:

Duraflame, Inc.
P.O.Box 1230, Stockton, California 95201
Telephone: (209) 461-6600
Fax: (209) 462-9412

DATE REVISED:**EMERGENCY CONTACT:**

John Wilding, Risk Manager
Day Hours 8:00am-5:00pm PST (209) 461-6600
Night (209) 948-8661

TRANSPORTATION EMERGENCIES:

CHEMTREC: 800-424-9300 (Continental U.S.)
202-483-7616 (Alaska, Hawaii)

HEALTH EMERGENCIES:

Los Angeles Poison Information Center
323-222-3212

SECTION II — Composition/Information on Ingredients

COMPONENT	CAS NO.	WT%	OSHA/PEL	ACGIH/TLV
Petroleum wax (mixture of unrefined petroleum waxes, slack waxes, paraffin waxes and oils)	64742-56-6 and/or 64742-61-6 and/or 8002-742 etc.	50 - 58	N.E.	N.E.
For comparison, Paraffin wax fumes	8002-74-2	N.A.	N.E.	2 mg/m ³
Non-hazardous Proprietary ingredient	N.A.	1 - 8	N.A.	N.A.
Non-hazardous ingredients Biomass fiber—softwood/hardwood, nutshell, or fibrous paper material (See Section XVI for abbreviation legend)	N.A.	42 - 55	N.A.	N.A.

SECTION III — Hazards Identification

EMERGENCY OVERVIEW: This material will burn but will not ignite readily. Normal combustion forms carbon dioxide, water vapor, minor amounts of oxides of sulfur and nitrogen and other oxygenated compounds. Incomplete combustion can, in addition, produce carbon monoxide. The product is designed for use in closed combustion woodstoves. Use the product only with proper ventilation (i.e. make sure the woodstove flue is open and adequate draft is established).

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Exposure to fumes from combustion could cause irritation.

INHALATION: Fumes from combustion could cause irritation of nose and throat.

INGESTION: Not known

CHRONIC EFFECTS - CARCINOGENICITY: The waxes used in this product may contain a small but detectable amount of polynuclear aromatic hydrocarbons (PAHs) which have been shown to cause skin cancer after prolonged and frequent contact with the skin of test animals. Brief or intermittent skin contact with this product is not expected to have serious effects, if it is washed from the skin promptly.

SECTION IV — First Aid Measures

SOLID MATERIAL (FIRELOG)

INHALATION: Not volatile at room temperature; therefore exposure by inhalation is unlikely.

INGESTION (SWALLOWING): The product is not known to be acutely toxic; however, get immediate medical attention. Never give anything by mouth to a victim who is unconscious or having convulsions.

BURNING FIRELOG

INHALATION OF FUMES: Remove to fresh air. If breathing is difficult, provide oxygen; if breathing stops, give artificial respiration and seek immediate medical attention. If irritation of the nose or throat develops, seek medical attention.

EYE CONTACT WITH FUMES: For exposure to fumes generated during burning, remove from exposure, immediately flush eyes with large amount of cool water for at least 15 minutes and seek medical attention.

SECTION V — Fire Fighting Measures

FLASH POINT: ~ 360°F (182°C) (This represents the lowest Flash Point of any of the components)

FIRE AND EXPLOSION HAZARD: This material will burn but will not ignite readily. It will not explode.
Extinguishing Media: Extinguish fires with dry chemical, and/or CO₂, and/or water.

SPECIAL FIRE-FIGHTING PROCEDURES: Fire-fighters should be equipped with self contained breathing apparatus and full protective clothing. Breaking up the burning log with a poker etc. will cause a sudden flare-up and intensify the fire. Burning pieces of the firelog may stick to the poker.

SECTION VII — Handling and Storage

STORAGE: Store in a cool dry location. Prolonged exposure to or contact with a significant source of heat (more than 120°F) may soften the firelog. While this is not a safety concern, softened firelog might break easily while handling. As a reference for bulk storage, the Fire Department of Stockton, California classifies firelogs as a Class III Commodity per NFPA guidelines.

HANDLING: Handle with care to avoid breakage. Do not tear or open the wrapper. Use only according to label directions.

SECTION VIII — Exposure Control/Personal Protection

ENGINEERING CONTROLS: Adequate domestic ventilation plus a properly functioning and maintained woodstove are necessary for the safe use of this product.

PROTECTION: Do not use a poker or otherwise disturb a burning firelog in any way. Always close door of woodstove after product is ignited. Never leave any fire unattended. Keep children and animals away from woodstove while in use. Read and follow the firelog label instructions.

SECTION IX — Physical and Chemical Properties

APPEARANCE: Solid
MOLECULAR WEIGHT: N.A.
SPECIFIC GRAVITY: N.A.
BOILING POINT: N.A.
ODOR: Slight
VAPOR DENSITY: N.A.
PHYSICAL STATE: Solid
SOLUBILITY: N.A.

FREEZING POINT: N.A.
PERCENT VOLATILE (70°F): N.A.
EVAPORATION RATE (70°F): N.A.
PH: N.A.
VISCOSITY: N.A.
VAPOR PRESSURE: N.A.
MELTING POINT (UNWRAPPED): Heat softens the log,
with wax melting at 140 - 160°F.

SECTION X — Stability and Reactivity

CHEMICAL STABILITY: Stable **INCOMPATIBILITY:** None

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Normal combustion forms carbon dioxide, water vapor, minor amounts of oxides of sulfur and nitrogen, and other oxygenated compounds. Incomplete combustion can, in addition, produce carbon monoxide.

SECTION XI — Toxicological Properties

No product toxicological information is available. For additional toxicity information, see Section III.

SECTION XII — Ecological Information

This product is not biodegradable. No further information is currently available.

SECTION XIII — Disposal Considerations

Do not attempt to handle or dispose of hot embers or firelog that is still burning (even if it appears to be only smoking).

Dispose of waste, spilled, unused product, and cool ashes in accordance with local, city, county, state and federal regulations.

SECTION XIV — Transportation Information

Not regulated by the Department of Transportation (D.O.T.)

BILL OF LADING DESCRIPTION: Chimney Maintenance Firelogs

D.O.T. Proper Shipping Name (49 CFR 172.101)	D.O.T. Hazard Classification (49 CFR 172.101)	D.O.T. Identification Number (49 CFR 172.101)
None	None	None
D.O.T. Technical Shipping Name (49 CFR 172.203k)	Hazardous Substance (40 CFR 302.4 CERCLA)	Reportable Quantity (RQ) (40 CFR 302.4 CERCLA)
None	None	None
D.O.T. Packing Group (49 CFR 172.101)	D.O.T. Labels (49 CFR 172.400)	D.O.T. Placards (49 CFR 172.504)
None	None	None

PRODUCT CODE NUMBER: Various

SECTION XV — Regulatory Information (Not meant to be all inclusive)

OSHA STATUS, 29 CFR 1910.1200: This material is not hazardous as defined by the OSHA's Hazard Communication Standard.

TSCA STATUS, 40 CFR PART 716: This material is not subject to the Toxic Substances Control Act.

CERCLA / SUPERFUND STATUS, 40 CFR 304: Not Applicable

SARA TITLE III, SECTIONS 302, 313: Not Applicable

RCRA STATUS, 40 CFR 261: Not subject to the provisions of this Act.

CALIFORNIA PROPOSITION 65 (CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986):

The Petroleum Wax used in this product may contain Poly Aromatic Hydrocarbons (PAHs). In addition, these PAHs, along with soot, creosote and carbon monoxide may be generated as part of the combustion products, and are subject to California Proposition 65.

SECTION XVI — Other Information

FIRST ISSUED: July 2003

PREPARED BY: Thao Huynh

PREVIOUS REVISION: None

REASON FOR CURRENT REVISION: N.A.

LEGEND:	CAS NO. Chemical Abstract Service Number	N.E. Not Established
	PEL Permissible Exposure Limit, per OSHA;	N.A. Not Applicable
	ACGIH American Conference of Govt. and Ind. Hygienists	
	TLV Threshold Limit Value, Per ACGIH	

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Duraflame, Inc. reserves the right to revise this Material Safety Data Sheet periodically as new information becomes available.