



MSDS Number: 201

## MATERIAL SAFETY DATA SHEET

### SECTION I: Chemical Product and Company Identification

#### PRODUCT IDENTIFICATION:

Duraflame firestart ® Firelighter

#### EMERGENCY CONTACT:

John Wilding, Risk Manager

24 Hours: (209) 461-6600

#### DISTRIBUTOR'S NAME AND ADDRESS:

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

#### TRANSPORTATION EMERGENCIES:

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

DATE REVISED: April 7, 2011

#### HEALTH EMERGENCIES:

Los Angeles Poison Information Center  
(323) 222-3212

### SECTION II: Composition/ Information on Ingredients

COMPONENT	CAS NO.	Wt %	EXPOSURE LIMITS	
			OSHA / PEL	ACGIH / TLV
A proprietary blend of fatty acid materials	67701-03-5 70321-73-2	PTS PTS	N.E. N.E.	N.E. N.E.
Sawdust from various softwood and hardwood species, ground agricultural biomass and other proprietary and miscellaneous materials.	N.A.	PTS	N.A.	N.A.
(See section XVI for abbreviation legend)				

### 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. Use this product only with proper ventilation and draft.

#### 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:** This product is not known to be carcinogenic.

## SECTION IV: First Aid Measures

### SOLID MATERIAL (FIRELIGHTER)

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

**Ingestion (swallowing):** The product is not known to be acutely toxic; ingestion could cause stomach discomfort or vomiting. As a safety precaution, seek medical attention if significant quantities of this material are ingested. Never give anything by mouth to a victim who is unconscious or having convulsions.

### BURNING FIRELIGHTER

**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 amounts 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 flames with dry chemical, and/or CO<sub>2</sub>, and/ or water.

**Special Fire-fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus and full protective clothing. Breaking up the burning firelighter with a poker, etc. will cause a sudden flare-up and intensify the fire. Burning pieces of the firelighter may stick to the poker.

## SECTION VI: Accidental Release Measures

This is a solid material, not volatile at ordinary ambient temperatures. No accidental release is likely and hence no measures have been established.

## SECTION VII: Handling and Storage

**Storage:** Store in a cool and dry location. Prolonged exposure to or contact with a significant source of heat (more than 120°F) may soften a firelighter. While this is not a safety concern, softened firelogs 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 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 fireplace are necessary for the safe use of this product.

**Protection:** Do not use a poker or otherwise disturb a burning firelighter in any way. Always close wire mesh protective fire screen when burning a firelighter. Never leave any firelighter fire unattended. Keep children and animals away from fireplaces when burning firelighter. Read and follow the firelighter label instructions.

## SECTION IX: Physical and Chemical Properties

Appearance:	Solid	Freezing Point:	N.A.
Molecular Weight:	N.A.	Percent Volatile (70°F):	N.A.
Specific Gravity:	N.A.	Evaporation Rate (70°F):	N.A.
Boiling Point:	N.A.	pH:	N.A.
Odor:	Slight	Viscosity:	N.A.
Vapor Density:	N.A.	Vapor Pressure:	N.A.
Physical State:	Solid	Melting Point (unwrapped):	Heat softens the firefighter, with wax melting at 140-160°F
Solubility:	N.A.		

## 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 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

Ash not suitable for use as soil amendment, do not spread ash in gardens.

## SECTION XIV: Transportation Information

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

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

Bill of Lading Description: firefighters

Product Code Number: Various

## **SECTION XV: Regulatory Information (Not meant to be all-inclusive)**

### **OSHA Status, 29CFR 1910.1200:**

This product is not hazardous as defined by OSHA's Hazard Communication Standard.

**TSCA Status, 40 CFR part 716:** Some of the components in this product are listed on the TSCA inventory.

**CERCLA / Superfund Status, 40 CFR 304:** N.A.

**SARA Title II, Sections 311-312:** None of the components in this product are listed.

**SARA Title III, Sections 302, 313:** None of the components in this product are listed.

**RCRA Status, 40 CFR 261:** Not subject to the provisions of this act.

**WHMIS (Canada) Status:** Some of the components in this product are controlled.

**WHMIS (Canada) Hazard Classification:** D/2/B.

**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):**

Some of the components in this product are listed on the DSL.

**EINECS (European Inventory of Existing Commercial Substances):**

Some of the components in this product are listed on the EINECS.

**AICS/NICNAS(Australian Inventory of Chemical Substances and National Chemicals Notification and Assessment Scheme):**

Some of the components in this product are listed on AICS or otherwise comply with NICNAS.

**California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):**

Combustion of this manufactured firelog results in the emission of carbon monoxide, soot and other combustion by-products which are known by the State of California to cause cancer, birth defects or reproductive harm.

## SECTION XVI: Other Information

First Issued: March 1991

Prepared by: Doug Morgan

Previous Revision: October 1, 2010

Revised on: April 7, 2011

Revised By: B. Herrera

Reason For Current Revision: Update phone # to first page.

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	PTS	Proprietary/Trade Secret
	TLV	Threshold Limit Value, Per ACGIH		

Duraflame, Inc., believes that the information in this document is accurate as of the date issued and is offered in good faith, but without warranty or representation. Since some ingredients are purchased from third parties, Duraflame, Inc., in good faith, relies on information provided by these third parties. Since conditions of use are beyond our control, we do not assume any responsibility for the result of its use. This information is offered solely for the consideration, investigation, and verification by our customers, storers, handlers and users of this product. Further, this information and the product are furnished on the condition that the users receiving them shall make their own determination as to the suitability of the product for their particular purpose, and on the condition that they assume the risk of their use thereof.

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

<b>COSHH Risk Assessment</b>		<b>Duraflame Logs</b>					
Describe the activity or work process.	Duraflame logs are organic heat logs which retain heat for an extended period of time. These are used in a similar way in which they are intended for use. This will often include used as fire sources in pots, trays or campfires which can be easily lit and extinguished. Quantities can vary, however these are almost exclusively used outdoors.						
Location of process being carried out?	External workshop, Back lot, external locations.						
Identify the persons at risk:	Employees (including trainees) <input checked="" type="checkbox"/>	Contractors <input checked="" type="checkbox"/>	Public <input checked="" type="checkbox"/>				
Name the substance involved in the process and its manufacturer.	Sawdust – 45-60% Fatty alcohol – 20-30% Natural binding agents – 5-15% Fatty acids, C16-18 – 3-10% Fatty Acids C14 -18 – 1-5% Natural seed – 1-5%						
<b>Classification (state the category of danger)</b>							
<input type="checkbox"/> Toxic	<input type="checkbox"/> Oxidising	<input type="checkbox"/> Respiratory sensitisier					
<input type="checkbox"/> Irritant Eyes	<input type="checkbox"/> Flammable	<input type="checkbox"/> systemic target organ toxicity,					
<input type="checkbox"/> Irritant Skin	<input type="checkbox"/> Gas Under Pressure	<input type="checkbox"/> Aspiration hazard					
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Explosive	<input type="checkbox"/> Harmful to the environment					
<b>Hazard Type</b>							
<input type="checkbox"/> Gas	<input type="checkbox"/> Vapour	<input type="checkbox"/> Mist	<input checked="" type="checkbox"/> Fume	<input type="checkbox"/> Dust	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid	<input type="checkbox"/> Other (State) .....
<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Skin	<input type="checkbox"/> Eyes	<input type="checkbox"/> Ingestion	<input type="checkbox"/> Other (State) .....			
<b>Workplace Exposure Limits (WELs) please indicate n/a where not applicable</b>							
N/A – not classified as toxic							
<b>State the Risks to Health from Identified Hazards</b>							
Classification -							
N/A – no hazardous classifications							

## Control Measures:

### Used for Fire effect

To be used away from flammables and vegetation.

To be used only under the supervision of experienced SFX personnel.

To be burned as an effect in well-ventilated areas only.

Minimal to be used to achieve effect.

Extinguishers to be on standby

Metal buckets and heat gloves / tongs to be on standby for disposal.

Should not be used directly next to insects or birds.

See task risk assessment for specifics.

### Storage

Store away from sources of ignition and out of direct sunlight.

Store in designated and marked containers

Do not store with oxidising agents.

No smoking signs to be added where necessary.

### Handling

Wash hands after handling

### Environmental

N/A

Is health surveillance or monitoring required?

Yes

No

## Personal Protective Equipment (state type and standard)

 <input type="checkbox"/>		 <input type="checkbox"/>	
 <input type="checkbox"/>		 <input type="checkbox"/>	
 <input checked="" type="checkbox"/>	Heat resistant gloves or tongs to be used to pick up logs.	 <input type="checkbox"/>	
 <input type="checkbox"/>		 <input type="checkbox"/>	

## First Aid Measures

**This product is not hazardous. Not expected to require first aid measures.**

### Inhalation:

Move the person to fresh air at once. Seek medical attention if irritation continues.

### Eye exposure:

Rinse eyes thoroughly – contact physician if irritation persists

### Ingestion:

Not expected to present a significant hazard under anticipated conditions of normal use.

### Skin contact

N/A

### Storage

Store away from sources of ignition and out of direct sunlight.

Store in designated and marked containers

Do not store with oxidising agents.

No smoking signs to be added where necessary.

Spill kits to be available

Extinguisher to be near storage

**Disposal of Substances & Contaminated Containers**

When cooled, dispose in general waste or garden waste.

Is exposure adequately controlled?

*These measures rely on other departments being able to follow them.*

Yes

No

**Risk Rating Following Control Measures**

High

Medium

Low

**Assessed By:** Dan Scott

**Date:** 23.06.2025