



SECTION 1: Chemical Product and Company Identification			
Product Name:	FLAMEDXX	Chemical name:	FLAMEDXX
Manufacturer:	Kool Products, LLC 3100 West End Avenue Suite 1000 Nashville, TN 37203	Chemical formula:	Not Applicable
		CAS #:	Mixture
		Validation Date:	09/15/2004
		Print Date:	09/15/2004
Synonym:	Not Available	Responsible Name:	Kool Products, LLC
Trade Name:	FLAMEDXX	In Case of Emergency:	1-866-FLAMEDXX (352-6339)
Product Description:	This solution contains a combination of chemicals that are blended to form a fire retardant product that is put into OSB.		
Product Uses:	Fire retardant press board		

SECTION 2: Composition and Information on Ingredients		
Name	CAS #	% by Weight
Proprietary Solution	Not Available	100



Section 3: Hazards Identification	
Emergency Overview	Eye and skin irritant. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
Routes of Entry	Inhalation and contact with skin and eyes.
Potential Acute Health Affects	<p>Eyes: May cause stinging, watering, and redness.</p> <p>Skin: May cause redness, itching, burning and skin damage. No harmful effects from skin absorption have been reported.</p> <p>Inhalation: No information available. Studies by other exposure routes suggest a low degree of hazard by inhalation.</p> <p>Ingestion: Low degree of toxicity by ingestion.</p>
Potential Chronic Health Affects	No test data exists on actual mixture. Possible symptoms are listed below: Irritation of the nose, throat and digestive tract, nausea, vomiting, diarrhea, coughing, and shortness of breath.
<p>Notes: Prolonged or repeated overexposure to fluoride compounds may cause fluorosis. Fluorosis is characterized by skeletal changes, consisting of osteosclerosis (hardening of abnormal density of the bone) and osteomalacia (softening of the bones) and mottled discoloration of the enamel of teeth if exposure occurs during enamel formation. Symptoms may include bone and joint pain and limited range of motion. This material contains ion compound(s). Effects of overexposure to dusts can include irritation of the eyes and respiratory tract, pneumoconiosis (dust congested lungs), pneumonitis (lung inflammation), coughing, vomiting, diarrhea, abdominal pain, and jaundice. Pre-existing conditions, such as skin disorders, may be aggravated with exposure to this chemical.</p>	

Section 4: First Aid Measures	
Eye Contact	If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.
Skin Contact	Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.
Inhalation	If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.
Ingestion	If swallowed, seek immediate emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestion of large amounts (more than five ounces or a little more than ½ cup in an adult) preferably under direction of a physician or poison center. If possible, do not leave unattended and observe closely for adequacy of breathing.

Section 5: Fire Fighting Measures	
Flammability of Product	Non-Flammable.
Unusual Fire & Explosion Hazards	Product can release toxic and/or irritating ammonia and fluorides when subject to high temperatures.
Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire. Avoid excessive water to minimize runoff.
Fire Fighting Instructions	For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see SECTION 8). Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid excessive water to minimize runoff.

Section 6: Accidental Release Measures	
Spill and Leak	Large spills can harm or kill vegetation. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify appropriate federal, state, and local agencies as may be required (see SECTION 15).

Section 7: Handling and Storage	
Handling	The use of appropriate respiratory protection is advised when concentrations exceed Wash hands after handling. Wash contaminated clothing and shoes. Use good personal hygiene practices.
Storage	Keep container(s) tightly closed. Use and store this material in well ventilated areas. Store only in approved containers. Keep away from any incompatible material (see SECTION 10). Protect container(s) against physical damage.

Section 8: Exposure Controls/Personal Protection		
Engineering Controls	If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see SECTION 2), additional ventilation or exhaust systems may be required.	
Personal Protection	Eyes	AVOID CONTACT WITH EYES. Suitable eye protection should always be worn to safeguard against potential eye contact, irritation, or injury.
	Skin	AVOID CONTACT WITH SKIN. The use of rubber work gloves is advised to prevent skin contact, possible irritation, and absorption.
	Respiratory	None Required.
Protective Clothing (Pictograms)	 	

Notes: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Section 9: Physical and Chemical Properties	
Odor:	Salty, slight Ammonia
Taste:	Not Available
Color:	Clear
Physical State:	Liquid
pH (Concentrate):	5.19
Boiling/Condensation Point:	Not Available
Melting/Freezing Point:	NA/30° F
Critical Temperature:	Not Available
Specific Gravity:	1.3448
Volatility (water=1):	1
Corrosivity:	May be corrosive to iron and mild steels, aluminum, zinc, and copper.
Evaporation Rate:	Not Available
Dispersion Properties:	Not Available

Section 10: Stability and Reactivity	
Stability and Reactivity	The product is stable under normal conditions of storage and handling.
Conditions of Instability	Possible violent reaction with magnesium and sodium hypochlorite.
Incompatibility with Various Substances	Avoid contact with alkalis.
Hazardous Decomposition Products	If heated to the point of decomposition (140 - 180° F), Ammonia may be released.
Hazardous Polymerization	Not Applicable.

Section 11: Toxicological Information	
No definitive information available for this product on skin irritation, carcinogenicity, Mutagenicity, target organs, or development toxicity.	

Section 12: Ecological Information	
Ecotoxicity	May release ammonium ions that are toxic to fish. Un-ionized ammonia concentrations above 0.02 mg/l are considered toxic in fresh water. May release phosphates which will result in algae growth, increased turbidity, and depleted oxygen. At extremely high concentrations, this may be hazardous to fish or other marine organisms. Release to watercourses may cause effects downstream.
BOD and COD	No data located.

Section 13: Disposal Considerations	
Waste Information	This material, if discarded as produced, is not an RCRA "listed" or "characteristic" hazardous waste. Contamination may subject it to hazardous waste regulations. Properly characterize all waste material. Consult state and local regulations regarding the proper disposal of this material.

Section 14: Transport Information	
Classification	Not listed in the hazardous materials shipping regulations (49 CFR, Table 172.101) by the U.S. Department of Transportation, or in the Transport of Dangerous Goods (TDG) Regulations Canada.
Special Provisions for Transport	Not Available.

Section 15: Regulatory Information	
CERCLA:	No
RCRA 261.33:	No
SARA Title III	
SARA 313:	No
SARA 311/312:	Acute: No; Chronic: No; Fire: No; Pressure: No; Reactivity: No
SARA 302/304:	No
TSCA:	All components listed in the TSCA Inventory
Proposition 65 (CA Health & Safety Code Section 25249.5):	Warning: This product contains substances that are known to the State of California to cause cancer and/or reproductive harm.
NTP, IARC, OSHA:	This material has not been identified as a carcinogen.
Canada DSL:	Yes
Canada NDSL:	No
WHMIS:	This MSDS has been prepared according to the hazard criteria of the Controlled Product Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section 16: Other Information	
Other Special Considerations	The 16 heading format MSDS complies with WHMIS criteria and follows the structure set forth by ANSI Z400.1-1998.
Validated by Kool Products, LLC on 09/15/2004	Printed 09/15/2004
<p>Notice to Reader <i>The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state, and local laws and regulations. Kool Products, LLC makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. Kool Products, LLC will not be liable for claims relating to any party's use of, or reliance on, information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete, or otherwise misleading. It is incumbent upon the user to obtain the most up-to-date information.</i></p>	