



Convolution Distribution Ltd.
Convolution Engineering
FireRetardantCoatings.com

SafeCoat® FR41 Broad Spectrum Fire Retardant

MATERIAL SAFETY DATA SHEET

Section 01: Chemical Product and Company Identification

Manufacturer Quantum Technical Services Ltd.
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Prepared by Quantum Technical Services Ltd.
Preparation Date February 23, 2014

Product Name **SafeCoat FR41 Broad Spectrum Fire Retardant**
Material Use Fire Retardant Treatment for Wood and Textiles

24 Hour Emergency Number (613) 996-6666 Canutec

Section 02: Composition/ Information on Ingredients

Hazardous Ingredients/CAS	%/wt	T.L.V.	LD/50 (Route, Species)	LC/50
Ammonium Sulfamate/ 7773-06-0	3.7	TWA: 15 mg/m ³	not available	not available
Boric Acid/ 10043-35-3	1.5	not available	2000 mg/kg (skin, rat)	not available

Section 03: Hazards Identification

Route of Entry	Eye Contact, Skin Contact, Inhalation
Eye Contact	Irritant
Skin Contact	Irritant
Skin Absorption	non-Permeator
Inhalation (Acute)	Hazardous if inhaled
Ingestion	Hazardous if ingested
Effects of Chronic Exposure	No chronic health effects are expected from normal use of this product.

Section 04: First Aid Measures

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Seek medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If irritation persists seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion	If ingested, consult a physician. Give large amounts of milk or water. Do not induce vomiting. Never give anything by mouth if victim is unconscious.
Additional Information	Not available.

Section 05: Fire Fighting Measures

Flash Point	not applicable
Auto Ignition Temperature (C)	not applicable
Upper Explosive Limit(% Vol.)	not applicable
Lower Explosive Limit(% Vol.)	not applicable
Extinguishing Media	Water spray or fog (do not use water jet) , Carbon Dioxide, Dry chemical, Foam.
Hazardous Combustion Products	By fire: Protect against potentially toxic and irritating fumes.
Sensitivity to Mechanical Impact	Not Available
Sensitivity to Static Discharge	Not Available
Special Fire Fighting Procedures	Firefighter should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Section 06: Accidental Release Measures

Leak/Spill	Dike area to prevent spreading. Spills should be taken up with suitable absorbent and placed in containers. Spill area can be washed with water. Collect wash water for approved disposal. Utilize protective clothing. Eliminate all sources of ignition.
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Section 07: Handling and Storage

Handling Procedures	Avoid skin and eye contact. Avoid breathing fumes. Remove contaminated clothing before reuse. Maintain a good personal hygiene.
Storage Needs	Store in a cool location. Keep container closed when not in use.

Section 08: Exposure Controls / Personal Protection

Protective equipment	
Eye/Type	Liquid chemical goggles. Contact lenses should not be worn
Respiratory/Type	Wear MSHA/NIOSH approved respirator when ventilation is inadequate.
Gloves/Type	Rubber or plastic impervious gloves. Wash thoroughly before handling any food.
Clothing/Type	Wear adequate protective clothes.
Footwear/Type	Not applicable.
Other/Type	Eyewash fountain. Emergency shower should be in close proximity.
Ventilation Requirements	Provide exhaust ventilation to keep airborne vapour concentration below threshold limit value.

Section 09: Physical and Chemical Properties

Physical State	Liquid
Odor	slight.
Specific Gravity	1.07
Odor Threshold(ppm)	Not available
Vapor Pressure (mm Hg)	Not available
Vapor Density (Air=1)	Not Available
Evaporation Rate	Not available
Boiling Point	approximately 100 C
pH	7 - 8
Solubility in water	Completely soluble
Coefficient of water/oil distribution	not available
Freezing Point (deg C)	approximately 0 C

Section 10: Stability and Reactivity

Incompatibility	none known
Reactivity Conditions	Highly reactive with oxidizing and reducing agents. Slightly reactive to organic acids and alkalis.
Hazardous products of decomposition	Not available.

Section 11: Toxicological Information

Irritancy of material	Irritant
Sensitizing Capability of Material	None.
Carcinogenicity of Material	Not available.
Teratogenicity	Not available..
Mutanagenity	Not available.
Synergistic Materials	Not available

Section 12: Ecological Information

Fish Toxicity	Not available
Biodegradability	Not available

Section 13: Disposal Considerations

Waste Disposal	In accordance with municipal, provincial and federal regulations. Empty containers must be handled with care due to protect residue.
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Section 14: Transport Information

T.D.G. Classification	Not regulated
Shipping Name	not applicable

Section 15: Regulatory Information

WHMIS Classification	D-2A, Material causing other toxic effects. This product has been classified in accordance with the hazard criteria of the controlled products regulations and the MSDS contains all the information required by the controlled products regulations.
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Section 16: Other Information

Note	This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Magna Coatings Technology Inc. The data on this sheet relates only to the specific material designated herein. Magna Coatings Technology Inc., Convoy Distribution Ltd./Convoy Engineering assumes no legal responsibility for use or reliance upon these data.
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