DRI-ONE® FLAME RETARDANT
SAFETY DATA SHEET

SECTION 1: Identification

MANUFACTURER: DESERT RESEARCH INSTITUTE, INC.

Desert Research Institute, Inc. has been in business since 1958 manufacturing our product DRI-ONE®. DRI-ONE® is a Safe, Non-Toxic, Non-Hazardous formula for the treatment of Foam, Fabric, Wood, and Plant Based Products for the prevention of combustion and flame spread in case of fire. DRI-ONE® is an All IN ONE Class A Flame Retardant. DRI-ONE® is formulated to Protect, Penetrate and Bond to the cellular structure of absorbent materials. DRI-ONE® is clear water based, ready to use flame retardant. This product has been used in both the business and personal environments for over 60 years.

Product: DRI-ONE® Class A Flame Retardant (Non-Toxic, Non-Hazardous)
Flame Rating Classification: Class A A.S.T.M. E-84 and Class 1 for NFPA 701 & C.A.C. Title 19
Flame Retardant Agency Approval
DRI-ONE® Flame Retardant meets the fabric testing standards set forth by the United States Testing Company, Inc. for the California Administrative Code, Title 19 for Class A Flame Retardant and for those set forth by the British Standard 476: Part 7: #1997 for Class One Flame Retardant, DRI-ONE® Flame Retardant also meets the standards set forth in the NFPA 701, Class A. Test results are available upon request.

DRI-ONE® has a number of uses including treatment of lumber to achieve a Class A flame spread rating as set forth in A.S.T.M. E84, also known as the Steiner Tunnel Test. This method is similar to ANSI 2.5, NFPA No. 225, UBC No. 42-1 and UL No. 723.

Applications: Spray, brush, roll, and/or submerge on absorbent materials such as foam, fabric, wood and plant based products.

Manufacture: Desert Research Institute, Inc.
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Mobile: (480) 694-0200 Office: 1(866) 967-0200

SECTION 2: Hazard(s) Identification

HAZARD RATING (NFPA 704) HAZARD RATING SCALE:

HEALTH: 1 0 = MINIMAL 3 = SERIOUS
FIRE: 0 1 = SLIGHT 4 = SEVERE
REACTIVITY: 1 2 = MODERATE
SPECIAL: OXY

SECTION 3: Composition / Information on Ingredients

None of the components of this product are hazardous.

SECTION 4: First-Aid Measures

In Case of Eye Contact: Immediately flush eyes with clear water. Seek medical attention if irritation persists.
In Case of Skin Irritation: Immediately wash skin with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists after washing.
If Swallowed: Do not induce vomiting. Drink several glass of water. Seek medical attention if necessary.
SECTION 5: Fire-Fighting Measures

Flash Point: DEG. F: None
Flammable Limits: Non-Flammable.
LEL: Not Applicable.
UEL: Not Applicable.
Extinguishing Media: This material is not combustible. Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: None.

SECTION 6: Accidental Release Measures

Spill or Leak Procedures: Rinse affected area with water. DRI-ONE will not harm the environment.
Waste Disposal Method: Dispose as Non-Hazardous waste in accordance with local regulations.

SECTION 7: Handling and Storage

Handling: Use rubber gloves and eye shields if product causes irritation. Clean up with clear water.
DO NOT DILUTE: Ready to use flame retardant
Storage: Store in plastic containers in temperature controlled environments. Avoid direct sunlight.
DO NOT STORE BELOW 32° F - 0° C
Other Precautions:
Corrosiveness: DRI-ONE® is mildly corrosive to metal. Do not store in metal containers. Wash all metal spray equipment and metal surfaces exposed to DRI-ONE® with clear water.

SECTION 8: Exposure Controls / Personal Protection

Eye Protection: Wear to prevent probability of eye contact.
Protective Gloves: Wear if there is prolonged skin contact.
Respiratory Protection: Not required.
Work/ Hygienic Practices: Do not ingest, do not splash into eyes.
Ventilation: No special ventilation is required.

Exposure Limits OSHA PEL: Not Established.
ACGIH TLV: Not Established.
Routes of Entry
Inhalation: Yes.
Ingestion: Yes.
Skin: Yes.

Signs and Symptoms of Exposure
Skin: Not a primary skin irritant.
Eyes: Not a primary ocular irritant.
Inhalation: Negligible.
Ingestion: Material considered non-toxic. If ingested, administer eight ounces of water. Do not induce vomiting. Contact physician.
SECTION 9: Physical and Chemical Properties

**BOILING POINT:** DEG. F: 320 (DEC)
**pH:** 6.8
**WATER SOLUBILITY:** %: >50
**VAPOR PRES:** MM HG/20
**VAPOR DEN:** (AIR=1): N/A
**SPECIFIC GRAVITY:** (WATER=1): 0.95
**MELTING POINT:** DEG. F: 267.8

**SULFAMIC ACID DERIVATIVE** – 15.5%
**NITROGENOUS COMPOUND** – 16.54%
**WATER AND WETTING AGENTS** – 67.96%

SECTION 10: Stability and Reactivity

**Stability:** Stable.
**Hazardous Polymerization:** Will not occur.
**Decomposition Products:** In liquid form there may be faint odor of ammonia and oxide traces of sulfur and nitrogen.

SECTION 11: Toxicological Information

**Oral:** RAT LD50 = 1.6 G/KG
**Skin:** Repeated application of 20% or 50% aqueous solutions to rat skin did not irritate the skin.
**Inhalation:** No data found.
**CARCINOGENICITY:** This matter is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.
**NTP:** None
**IARC:** None
**OSHA Regulated:** None
**Other Data:** None.

SECTION 12: Ecological Information

**Biodegradability:** Readily degradable in the environment
**Disposal:** DRI-ONE® flame retardant can be disposed through municipal system

SECTION 13: Disposal Considerations

Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for their intended use, and user assumes all risk and liability whatsoever in connection therewith. If product is tamper evident, do not use and contact Desert Research Institute, Inc. immediately.

SECTION 14: Transport Information

**U.S Department of Transportation:** Not Regulated
**International Transportation:** Non Regulated
**Canadian Transportation of Dangerous Goods:** Non Regulated
SECTION 15: Regulatory Information


SECTION 16: Other Information

Prepared By: Desert Research Institute, Inc.  
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Disclaimer:  
The information herein is based upon data obtained from recognized technical sources. While the information is believed to be accurate, Desert Research Institute, Inc. makes no representation as to its accuracy or sufficiency. Conditions of use are beyond our control and therefore users are responsible to verify this data under their own operation conditions to determine whether the product is suitable for their particular purposes. Also, they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

End of SDS