



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. 255, 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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SECTION 2: Hazard(s) Identification

HAZARD RATING (NFPA 704) HAZARD RATING SCALE:

HEALTH: 1

FIRE: 0

REACTIVITY: 1

SPECIAL: OXY

HAZARD RATING SCALE:

0 = MINIMAL 3 = SERIOUS

1 = SLIGHT 4 = SEVERE

2 = MODERATE



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 Non-Corrosive to metals when dry. DRI-ONE is mildly corrosive when applied wet to metals. Wash any metal surfaces exposed to DRI-ONE with a damp cloth or rinse with clean 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%

PROPRIETARY COMPOUNDS – 16.54%

WATER AND PROPRIETARY 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.

Oral: RAT LD50 = 1.6 G/KG

SECTION 11: Toxicological Information

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

SECTION15: Regulatory Information

US Federal Regulations: This product is not known to contain "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. Safe Drinking Water Act: N/A Drug Enforcement Agency: N/A Food and Drug Administration: N/A WHMIS: Not Controlled Section 302 Extremely Hazardous Substance: NO Section 311 Hazardous Chemical: NO SARA Hazard Categories: Immediate Hazard- NO Delayed Hazard: NO Fire Hazard: NO Pressure Hazard: NO Reactivity Hazard: NO This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. U.S Minnesota - Hazardous Substance List U.S Massachusetts - Right to Know List U.S Pennsylvania - Right to Know List U.S Rhode Island - Hazardous Substance List U.S Texas - Effects Screening Levels - Short/Long Term United States & Puerto Rico Non-Domestic Substance List: No Toxic Substances Control Act inventory: Yes Canada Domestic Substance List: Yes

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



DRI-ONE Flame Retardant

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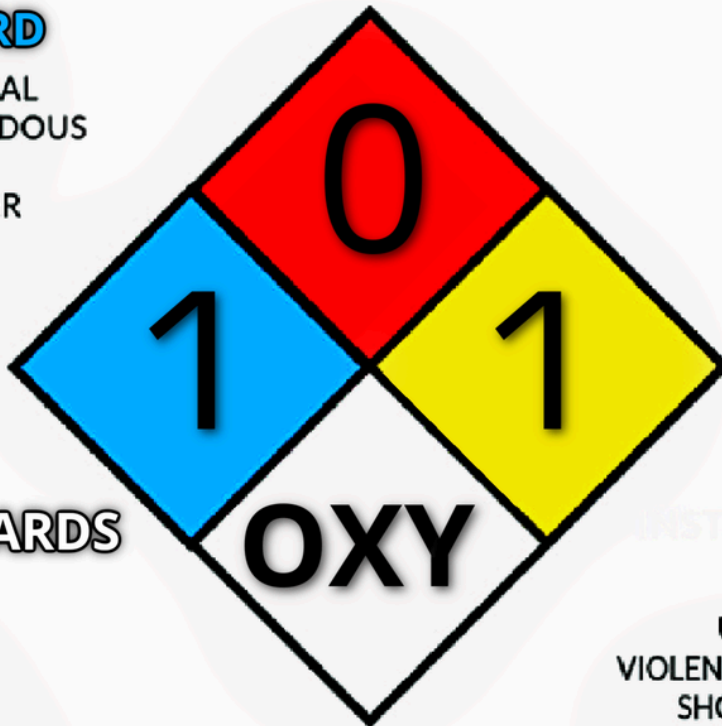
NFPA GUIDE NFPA 704 / NFPA FIRE DIAMOND LABELING

HEALTH HAZARD

- 0 NORMAL MATERIAL
- 1 SLIGHTLY HAZARDOUS
- 2 HAZARDOUS
- 3 EXTREME DANGER
- 4 DEADLY

FIRE HAZARD

- WILL NOT BURN 0
- ABOVE 200° F 1
- BELOW 200° F 2
- BELOW 100° F 3
- BELOW 73° F 4



SPECIAL HAZARDS

- ACID ACID
- ALK ALKALI
- COR CORROSIVE
- OX OXIDIZER
- RADIATION HAZARD
- USE NO WATER

INSTABILITY

- STABLE 0
- UNSTABLE IF HEATED 1
- VIOLENT CHEMICAL CHANGE 2
- SHOCK AND HEAT MAY 3
- DETONATE
- MAY DETONATE 4

NFPA Rating Explanation Guide					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING NUMBER	SPECIAL HAZARD
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	OX	Oxidizing
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock		
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	SA	Simple asphyxiants
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable, high temperatures make unstable		
0	No hazard	Will not burn	Stable	W	Reacts violently or explosively with water

This chart for reference only - For complete specifications consult the NFPA 704 Standard