

## Firescoff Step by Step



Gently heat jewelry to around 250°F (120°C).

Tip: Gage the temperature by placing a drop of water on the metal surface. Apply heat until the water boils off completely, then *Firescoff*.



Spray *Firescoff* so that a fine mist covers the entire piece. When applied correctly, *Firescoff* will form a uniform white powder coating instantly on contact.



Gently reheat coated jewelry. Apply more *Firescoff* if a reflection from the metal or any gemstones is visible.

Tip: For faster solder flow, apply more *Firescoff*.



Because *Firescoff* is also a flux, no other paste or liquid flux is required.

Tip: When using paste solder, apply paste solder first, then *Firescoff*.



Remove *Firescoff* coating after soldering easily using just warm water, or ultrasonic bath. No acid pickle is required.



Award winning performance  
Award winning convenience  
Award winning safety  
Award winning results!

Manufactured by:



Nventa Inc. Scottsdale, AZ USA  
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[www.Firescoff.com](http://www.Firescoff.com)



When Quality Matters  
When Time Matters  
When Safety Matters

# Firescoff®

## Ceramic Flux Spray

### The Firescoff Advantage

- Industry leading firescale protection
- Flawless void-free welds
- Consistent, predictable solder flow
- Multiple soldering w/ single application
- 60% reduction in prep time
- Maintains original metal color & patina
- Fluoride Free (safe for corundum)
- Non Toxic, No Outgassing (Refer to MSDS)
- No Flux & No Pickle required
- Easy warm water clean-up
- High polish weld finish w/Laser
- M.J.S.A Award Winning Results!
- Toll-free 1-800 Technical Support



Award Winning Flux  
Award Winning Firescale Preventer  
Award Winning Heat Shield  
Award Winning Results



# MATERIAL SAFETY DATA SHEET

MSDS #: 896223-10008-1 r4

Issue Date: 07/01/2007

SECTION I – CHEMICAL PRODUCT			
Identity: Firescoff® Ceramic Flux, Firecoat/Firescale Preventer, Heat Shield			
Brand: Firescoff®			
Hazard Rating:	Health: 1	4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Minimal	
	Flammability: 0		
	Reactivity: 0		
Emergency Telephone Number:	1-800-535-4980	National Emergency Poison Control Hotline:	1-800-222-1222
Or call Local Poison Control Center or your physician			

SECTION II – COMPOSITION AND INGREDIENTS	
Ingredients/Chemical Name (May contain one or more of the following): Water, antioxidant(s), ceramic matrix compound(s), non-metallic oxides, dissolution dispensing aid(s), cleaning agent(s), stabilizing agent(s)	
Potentially Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200(g):	
CAS	NIOSH
7764-38-2	1 mg/m3 TWA

SECTION III – HAZARDS IDENTIFICATION	
<b>Health Hazards (Acute and Chronic):</b>	
<i>Inhalation:</i>	Aerosol mist may cause slight irritation to upper respiratory tract.
<i>Ingestion:</i>	May cause gastrointestinal irritation and electrolytic imbalance.
<i>Eye Contact:</i>	May cause eye irritation.
<i>Skin:</i>	May cause minor skin irritation.
<b>Signs and Symptoms of Exposure:</b>	
<i>Inhalation:</i>	May result in nausea, headache, and/or respiratory tract irritation.
<i>Ingestion:</i>	May result in nausea, vomiting, abdominal pain, and/or diarrhea.
<i>Eye Contact:</i>	May cause stinging, burning, tearing, itching, swelling, and/or redness.
<i>Skin:</i>	May cause minor itching, stinging, and/or redness.

SECTION IV – FIRST AID INFORMATION	
<b>Emergency and First Aid Procedures:</b>	
<i>Inhalation:</i>	Remove person to fresh air. Seek medical attention if symptoms persist
<i>Ingestion:</i>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Drink 2 – 4 glasses of milk or water. Seek medical attention.
<i>Eye Contact:</i>	Flush thoroughly with water for 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.
<i>Skin:</i>	Rinse skin with water. If spilled on clothing, change clothes. Seek medical attention if symptoms persist.

## Add a Little Firescoff® Hold the Pickle



Introducing *Firescoff* - A revolutionary spray ceramic coating that prevents scale, acts as a flux, and comes off with just warm water. Lose the pickle, and enjoy.

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- 1 Start by gently heating jewelry to ~250°F (~120°C)  
Tip: Gage the temperature by placing a drop of water on the metal surface. Apply heat until the water boils off, then apply *Firescoff*.
- 2 Spray *Firescoff* so that a fine mist evenly coats the entire piece. With proper heat, the *Firescoff* coating will instantly turn white. For best results, apply *Firescoff* holding the spray bottle ~8 inches from jewelry.
- 3 Gently reheat the coated jewelry. Apply additional *Firescoff* where a reflection from the metal or any gemstones is still visible.  
Tip: For faster solder flow, apply more *Firescoff*.
- 4 Because *Firescoff* is also a flux, not other paste flux is necessary.  
Tip: When using paste solder, apply paste solder first then *Firescoff*.
- 5 Remove *Firescoff* without the need of a pickle solution by using only warm water or ultrasonic bath.

Questions? Call our tech line at 1-800-535-4980.

 Made in the USA. Nventa Incorporated, Scottsdale Arizona, www.Firescoff.com

## Firescoff® MSDS (Continued)

SECTION V – FIRE FIGHTING INFORMATION		
Extinguishing Media: Substance is noncombustible. Use any fire-fighting agent appropriate for surrounding material.		
Flash Point (Method Used): N/A	Explosive Limits: LEL: N/A UEL: N/A	
Special Fire Fighting Procedures: None	Unusual Fire Hazards: None	
Stability: Stable Conditions to Avoid: None known	Incompatibility: Strong oxidizers	
Hazardous Polymerization: Will not occur Conditions to Avoid: None known		
SECTION VI – ACCIDENTAL RELEASE MEASURES		
Personal Precautions: None		
Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL REGULATIONS. Solutions may be allowed to be flushed down sewer. First check with your local water treatment plant. Please do not landfill.		
Steps To Be Taken in Case Material is Released or Spilled: Sorbents may be used. Read "Disposal Considerations" below for further information.		
SECTION VII – HANDLING AND STORAGE		
Precautions To Be Taken in Handling and Storage: Avoid low temperature.	Shelf Life: 2 years	
Storage Temperature: Recommended 72° to 120° F (25° to 49° C)	Other Precautions: Store in closed container.	
SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION		
Respiratory Protection (Specify Type): None required with normal use.		
Ventilation Local Exhaust: None required with normal use.	Special: None	
Mechanical (General): Normal/general dilution ventilation is acceptable.		Other: None
Eye Protection: None required with normal use.		
Industrial Setting: For splash and liquid vapor protection, use chemical goggles. Eye wash fountain is desirable.		
Protective Gloves: None required with normal use.		
Industrial Setting: Protective gloves (nitrile, rubber, neoprene) should be used for prolonged direct contact.		
Other Protective Equipment: None required with normal use. Industrial Setting: Avoid confined space entry without supplemental breathing air.		
SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES		
Boiling Point °F: N/A	Appearance and Odor:	Specific Gravity (H <sub>2</sub> O = 1): ca. 1.1
Vapor Pressure (mm Hg): N/A	Clear liquid / white ceramic powder coating.	Freezing Point: N/A
Vapor Density (Air=1): N/A		pH (100% solution): > 7 (basic)
Evaporation Rate (nBuOAc=1): N/K		Solubility in Water: Completely
SECTION X – STABILITY AND REACTIVITY		
Chemical Stability: Stable under normal conditions. Rapid crystallization with heating. Absorbs oxygen and carbon dioxide from the air.		
Possible Hazardous Reactions/Conditions: In very rare cases, may react with strong oxidizers, metal hydrides, or alkali metals generating hydrogen gas, which could create an explosion hazard.		
Materials / Conditions to Avoid: Strong oxidizers		
Hazardous Decomposition Products: May include inorganic metal and non-metal oxides.		
SECTION XI – TOXICOLOGICAL INFORMATION		
Water based ceramic fluxes have a low order of toxicity.		
SECTION XII – ECOLOGICAL INFORMATION		
In large quantity at high concentration, soluble ceramic compounds may cause damage to trees or vegetation by root absorption.		
SECTION XIII – DISPOSAL CONSIDERATIONS		
Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.		
SECTION XIV – TRANSPORT INFORMATION		
Firescoff® contains no alcohol and is non-hazardous under DOT. This material approved for shipment via commercial passenger air-freight.		
SECTION XV – ADDITIONAL REGULATORY INFORMATION		
All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5. No components of Firescoff® are subject to California Proposition 65 labeling. This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.		
SECTION XVI – ECOLOGICAL INFORMATION		
* N/A – Not Applicable	* N/K – Not Known	
The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.		
The information contained herein has been compiled from sources considered by Nventa Incorporated to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Nventa Incorporated assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.		