

## MATERIAL SAFETY DATA SHEET

PART NUMBER: 8443F  
IDENTITY: RESIN CARTRIDGE  
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DATE REVISED: 01/26/11  
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### SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
SULFONATED DIVINYLBENZENE STYRENE COPOLYMER, H ION FORM (CAS # 39389-20-3)	100			
NON-HAZARDOUS INGREDIENTS TOTAL	100			

No health hazard or other information is available for the solution or mixture. The following sections are based on information obtained from [http://www.rohmhaas.com/ionexchange/IP/119wet\\_msds.htm](http://www.rohmhaas.com/ionexchange/IP/119wet_msds.htm) and our best scientific understanding of the solution.

### SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	100°C
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1.26-1.30
VAPOR PRESSURE (mm Hg/TEMPERATURE)	17 mm Hg @ 20°C
MELTING POINT	0°C
VAPOR DENSITY (AIR = 1)	N/A
EVAPORATION RATE (= 1)	Less than 1
SOLUBILITY IN WATER	Insoluble
WATER REACTIVE	N/A
APPEARANCE AND ODOR	Beads, pugniant odor

### SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USE	N/A
AUTO IGNITION TEMPERATURE	400°C
FLAMMABILITY LIMITS IN AIR BY VOLUME	N/A
LEL	N/A
UEL	N/A
EXTINGUISHER MEDIA	CARBON DIOXIDE-DRY CHEMICAL- WATER SPRAY
SPECIAL FIRE FIGHTING PROCEDURE	WEAR NIOSH APPROVED RESPIRATOR
UNUSUAL FIRE AND EXPLOSION HAZARD:	GENERATES TOXIC FUMES WITH SULFUR OXIDES

### SECTION 4--REACTIVITY HAZARD DATA

STABILITY	STABLE <u>X</u>	UNSTABLE <u>   </u>
CONDITIONS TO AVOID:	SULFUR OXIDES	
INCOMPATIBILITY MATERIALS TO AVOID:	STRONG OXIDIZING AGENTS AND NITRIC ACID CONC.	
HAZARDOUS DECOMPOSITION PRODUCTS:	MONOMER VAPORS-SULFUR OXIDES	
HAZARDOUS POLYMERIZATION:	MAY OCCUR <u>   </u>	WILL NOT OCCUR <u>X</u>
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID:	N/A	

**SECTION 5--HEALTH HAZARD DATA** 8443F

PRIMARY ROUTES OF ENTRY:            INHALATION\_\_            SKIN ABSORPTION\_\_X  
    INGESTION\_\_            NOT HAZARDOUS\_\_

CARCINOGEN LISTED:            NPT\_\_ IRAC\_\_ OSHA\_\_ NOT LISTEDX

**HEALTH HAZARDS**

ACUTE:            SKIN IRRITATION  
CHRONIC:        UNKNOWN

SIGNS AND SYMPTOMS OF EXPOSURE:            SLIGHT SKIN IRRITATION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:    UNKNOWN

**EMERGENCY FIRST AID PROCEDURES:**

EYE CONTACT:            FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES

SKIN CONTACT:            WASH SKIN THOROUGHLY WITH SOAP AND WATER

INHALATION:            N/A

INGESTION:            N/A

**SECTION 6--CONTROL AND PROTECTIVE MEASURES**

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSHA/MSHA APPROVED RESPIRATOR

PROTECTIVE GLOVES:        YES

EYE PROTECTION:            YES (ANSI Z87.1 OR EQUIVALENT)

**VENTILATION TO BE USED**

LOCAL EXHAUST:            N/A

MECHANICAL (GENERAL):    N/A

SPECIAL OTHER (SPECIFY):    N/A

PROTECTIVE CLOTHING AND EQUIPMENT:    LAB COAT/APRON

HYGIENIC WORK PRACTICES:        YES

**SECTION 7--PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:    TRANSFER SPILLED MATERIAL TO SUITABLE CONTAINERS.

WASTE DISPOSAL METHODS:            AN APPROVED DISPOSAL FACILITY OR LANDFILL, SEE LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:    AVOID EXTREMES/ FREEZE-THAW

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS:    POSSIBLE EXPLOSION WHEN ADDED TO NITRIC ACID

**RATING:**

HEALTH\_\_1            FLAMMABILITY\_\_1        REACTIVITY\_\_0            SPECIFIC\_\_