



Date Issued: **February 3, 2011**

Supersedes Date: **November 20, 2008**

MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION				
Product Name	RadAway			
Product Code (Catalog Number)	RA-C, RA-LVS-C			
Product Category (Chemical Name)	RadAway			
Product Appearance and Odor	Black granular or powder, no odor.			
Emergency Notification	Chem-Tel 1-800-255-3924			
COMPONENTS AND HAZARD INFORMATION				
Component	CAS No.	%	OSHA TWA	OSHA STEL
Activated Carbon	7440-44-0		NA	NA
Trimethylamine functionalized Chloromethylated copolymer of styrene and divinylbenzene in the chloride form	060177-39-1		NL	NL
Alumina	1344-28-1		NL	NL
Polysaccharide	NL		NL	NL
Water	007732-18-5		NL	NL
PHYSICAL DATA				
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.				
Boiling Range NA	Specific Gravity 1.9-2.2	Molecular Weight NL	Viscosity NA	
Percent Volatile by Volume NA	Vapor Pressure @20 C degrees NA	Vapor Density (Air = 1) NA	Pour, Congealing or Melting Point NA	
Solubility in Water @1 ATM and 25°C (77°F) NA		Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1) NA		pH NA
FIRE AND EXPLOSION HAZARD INFORMATION				
Flash Point (Minimum) NA	Autoignition Temperature 350 °C	Test Mode NL	LEL NL	UEL NL
Handling Precautions None, as long as the cartridge is in tact.				

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Dust from broken cartridges may cause the following: Eye irritation, minor irritation to respiratory system.

(ACGIH, OSHA and other TLV are not applicable for this product)

Flammable or Explosive Limits (Approximate Percent by Volume in Air)

Stable under normal handling and storage conditions. Product is not combustible until moisture is removed. Burns in flame at 230 °C.

Extinguishing Media

Flood with plenty of water or inert gas such as N₂ and CO₂ or dry chemical.

Fire Fighting Procedures

None. Over heating can produce semi-liquid melt. Molten material can also contribute to spread of fire.

Decomposition Products Under Fire Condition

Possible fire combustion products: Alkybenzenes, vinylbenzenes, naphthalene, benzaldehydes, phenol, carbon dioxide, water, organic amines, ammonia, chlorine, nitrogen oxide, methyl chloride and minor amounts of hydrogen cyanide, or aldehydes.

“Empty” Container Warning

NE

Unusual Fire and Explosion Hazards

Warning: Strong oxidizing agents such as nitric acid or ozone may, under certain conditions, degrade the contents of the cartridge up to a explosive reaction.

HEALTH AND HAZARD INFORMATION

Variability Among Individuals

NE

Signs and symptoms of overexposure

Slight irritation of eyes and nose may result from contact.

Effects of Overexposure

Prolonged exposure may cause damage to lungs.

Nature of Hazard and Toxicity Information

NNR

Pre-existing Medical Conditions which may be Aggravated by Exposure

NA

Threshold Limit Value

NE

Health Hazards

Eye: May cause severe eye irritation. May cause moderate corneal injury. Effects are likely to heal

Skin: Prolonged or repeated exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded. LD-50 for rabbits is >2000 mg/Kg.

Ingestion: Vapors are unlikely due to physical properties.

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PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

Eye Contact

Flush with plenty of water for as least 15 minutes.

Skin

Wash off with soap and water.

Inhalation

In case of inhalation move victim into fresh air. .

Ingestion

No adverse effects anticipated by this route of exposure.

Note to physician: No specific antidote. Supportive care. Treatment based on physician's judgement in response to reaction of the patient.

SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.

REACTIVITY

Stability

Stable under normal conditions

Incompatibility

Strong oxidizing agents such as nitric acid, ketone or ozone.

Hazardous Decomposition Products

CO

Conditions to Avoid

Generation of dust during and fines during handling of a broken cartridge.

Hazardous Polymerization

Will not occur

Materials to Avoid

See incompatibility statement

ENVIRONMENTAL INFORMATION

Steps to be Taken in Case Material is Released or Spilled

Wear protective breathing filter and sweep up.

Disposal

Dispose in accordance with local, state and federal regulations. Incineration.

Protective Gear

Rubber gloves, Protective clothing, Safety glasses, If dust from a cartridge is present use a NIOSH approved particulate filter. Good general ventilation.

Precautions to be taken in handling and storage

Avoid breaking open the cartridge as dust may occur. Avoid possible sources of ignition.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.

Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)

NE

Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)

NE

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Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313) NE
Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312) NE
PROTECTION AND PRECAUTIONS
Ventilation Good general ventilation.
Respiratory Protection No respiratory protection should be required.
Protective Gloves Not needed with normal use.
Eye Protection Optional
Other Protective Equipment Safety shower and eye bath.
TRANSPORTATION AND OSHA RELATED LABEL INFORMATION
Transportation Incident Information Notify EPA.
U.S. DOT Hazardous Materials Shipping Description NL
OSHA Required Label Information NL

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