

MSDS Number: Z6015 \* \* \* \* \* Effective Date: 07/27/07 \* \* \* \* \* Supercedes: 05/03/07

**MSDS****Material Safety Data Sheet**

From: Mallinckrodt Baker, Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151  
CHEMTREC: 1-800-424-9300

National Response in Canada  
CANUTEC: 613-996-6666

Outside U.S. And Canada  
Chemtrec: 703-527-3887

**NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.**

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

## Mercury Spill Clean-up Kit

### 1. Product Identification

**Synonyms:** The Mercury Spill Clean-Up Kit contains three different spill-kit products. See appropriate MSDSs for - CINNASORB™ Elemental Mercury Absorbent Base (MSDS# Z6058), - CINNASORB™ Elemental Mercury Absorbent Activator (MSDS# Z6059), and - RESISORB® Mercury Vapor Absorbent (MSDS# Z6140).

**CAS No.:** Not applicable.

**Molecular Weight:** Not applicable.

**Chemical Formula:** Not applicable.

**Product Codes:** 4439

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Kit contains these chemicals:			
Sulfamic Acid	5329-14-6	*	Yes
Zinc	7440-66-6	*	Yes
Zinc Oxide	1314-13-2	*	Yes
Lead	7439-92-1	*	Yes
Steam Activated Carbon	7440-44-0	*	Yes
Iodine	7553-56-2	*	Yes
See appropriate MSDS for each component of this kit.			

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### 3. Hazards Identification

#### Emergency Overview

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**DANGER! CORROSIVE. CAUSES SEVERE IRRITATION OR BURNS TO EVERY AREA OF CONTACT. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. VAPORS CAUSE SEVERE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CARDIOVASCULAR, RESPIRATORY AND CENTRAL NERVOUS SYSTEMS. MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR. WATER REACTIVE. MAY AFFECT THE GUM TISSUE, CENTRAL NERVOUS SYSTEM, KIDNEYS, BLOOD AND REPRODUCTIVE SYSTEM (lead component).**

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

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Health Rating: 3 - Severe (Cancer Causing)

Flammability Rating: 2 - Moderate

Reactivity Rating: 2 - Moderate

Contact Rating: 3 - Severe (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

Storage Color Code: White (Corrosive)

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#### Potential Health Effects

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For health effect information regarding the components of this kit, please refer to the corresponding MSDS for each component.

**Inhalation:**

Not applicable.

**Ingestion:**

Not applicable.

**Skin Contact:**

Not applicable.

**Eye Contact:**

Not applicable.

**Chronic Exposure:**

Not applicable.

**Aggravation of Pre-existing Conditions:**

Not applicable.

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### 4. First Aid Measures

For first aid information regarding the components of this kit, please refer to the corresponding MSDS for each component.

**Inhalation:**

Not applicable.

**Ingestion:**

Not applicable.

**Skin Contact:**

Not applicable.

**Eye Contact:**

Not applicable.

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## 5. Fire Fighting Measures

**Fire:**

For fire fighting information regarding the components of this kit, please refer to the corresponding MSDS for each component.

**Explosion:**

Not applicable.

**Fire Extinguishing Media:**

Not applicable.

**Special Information:**

Not applicable.

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## 6. Accidental Release Measures

Remove all sources of ignition. Use non-sparking tools and equipment. Substance may be pyrophoric and self-ignite. Water reactive. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8 of component MSDSs. Spills: Sweep up in a manner that does not disperse powder in the air and containerize for reclamation or disposal.

For spill treatment information regarding the components of this kit, please refer to the corresponding MSDS for each component.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

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## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from moisture and oxidizers. Avoid dust dispersal.

Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered in confined spaces. Work procedures for potentially low oxygen areas should be followed.

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

For exposure control and personal protection information regarding the components of this kit, please refer to the corresponding MSDS for each component.

### **Ventilation System:**

Not applicable.

### **Personal Respirators (NIOSH Approved):**

Not applicable.

### **Skin Protection:**

Not applicable.

### **Eye Protection:**

Not applicable.

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## 9. Physical and Chemical Properties

For physical and chemical property information regarding the components of this kit, please refer to the corresponding MSDS for each component.

### **Appearance:**

Not applicable.

### **Odor:**

Not applicable.

### **Solubility:**

Not applicable.

### **Specific Gravity:**

Not applicable.

### **pH:**

Not applicable.

### **% Volatiles by volume @ 21C (70F):**

Not applicable.

### **Boiling Point:**

Not applicable.

### **Melting Point:**

Not applicable.

### **Vapor Density (Air=1):**

Not applicable.

### **Vapor Pressure (mm Hg):**

Not applicable.

### **Evaporation Rate (BuAc=1):**

Not applicable.

## 10. Stability and Reactivity

**Stability:**

For stability and reactivity information regarding the components of this kit, please refer to the corresponding MSDS for each component.

**Hazardous Decomposition Products:**

Not applicable.

**Hazardous Polymerization:**

Not applicable.

**Incompatibilities:**

Not applicable.

**Conditions to Avoid:**

Not applicable.

## 11. Toxicological Information

For toxicological information regarding the components of this kit, please refer to the corresponding MSDS for each component.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Sulfamic Acid (5329-14-6)	No	No	None
Zinc (7440-66-6)	No	No	None
Zinc Oxide (1314-13-2)	No	No	None
Lead (7439-92-1)	No	No	2B
Steam Activated Carbon (7440-44-0)	No	No	None
Iodine (7553-56-2)	No	No	None

## 12. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this

product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

### Domestic (Land, D.O.T.)

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**Proper Shipping Name:** CORROSIVE SOLIDS, N.O.S (SULFAMIC ACID)  
**Hazard Class:** 8  
**UN/NA:** UN1759  
**Packing Group:** III  
**Information reported for product/size:** 1KT

### International (Water, I.M.O.)

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**Proper Shipping Name:** CORROSIVE SOLIDS, N.O.S (SULFAMIC ACID)  
**Hazard Class:** 8  
**UN/NA:** UN1759  
**Packing Group:** III  
**Information reported for product/size:** 1KT

### International (Air, I.C.A.O.)

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**Proper Shipping Name:** CORROSIVE SOLIDS, N.O.S (SULFAMIC ACID)  
**Hazard Class:** 8  
**UN/NA:** UN1759  
**Packing Group:** III  
**Information reported for product/size:** 1KT

## 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Sulfamic Acid (5329-14-6)	Yes	Yes	Yes	Yes
Zinc (7440-66-6)	Yes	Yes	No	Yes
Zinc Oxide (1314-13-2)	Yes	Yes	Yes	Yes
Lead (7439-92-1)	Yes	Yes	Yes	Yes
Steam Activated Carbon (7440-44-0)	Yes	Yes	No	Yes
Iodine (7553-56-2)	Yes	Yes	No	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada--		Phil.
		DSL	NDSL	
Sulfamic Acid (5329-14-6)	Yes	Yes	No	Yes
Zinc (7440-66-6)	Yes	Yes	No	Yes

Zinc Oxide (1314-13-2)	Yes	Yes	No	Yes
Lead (7439-92-1)	Yes	Yes	No	Yes
Steam Activated Carbon (7440-44-0)	Yes	Yes	No	Yes
Iodine (7553-56-2)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Sulfamic Acid (5329-14-6)	No	No	No	No
Zinc (7440-66-6)	No	No	Yes	No
Zinc Oxide (1314-13-2)	No	No	No	Zinc compoun
Lead (7439-92-1)	No	No	Yes	No
Steam Activated Carbon (7440-44-0)	No	No	No	No
Iodine (7553-56-2)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8 (d)
Sulfamic Acid (5329-14-6)	No	No	No
Zinc (7440-66-6)	1000	No	No
Zinc Oxide (1314-13-2)	No	No	No
Lead (7439-92-1)	10	No	No
Steam Activated Carbon (7440-44-0)	No	No	No
Iodine (7553-56-2)	No	No	No

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: Yes  
 SARA 311/312: Acute: Yes      Chronic: Yes      Fire: Yes      Pressure: No  
 Reactivity: Yes      (Mixture / Solid)

**WARNING:**

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**16. Other Information**

**NFPA Ratings:** Health: 3 Flammability: 1 Reactivity: 1 Other: **Water reactive**

**Label Hazard Warning:**

DANGER! CORROSIVE. CAUSES SEVERE IRRITATION OR BURNS TO EVERY AREA OF CONTACT. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. VAPORS CAUSE SEVERE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS CARDIOVASCULAR, RESPIRATORY AND CENTRAL NERVOUS SYSTEMS. MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. MAY FORM COMBUSTIBLE DUST

CONCENTRATIONS IN AIR. WATER REACTIVE. MAY AFFECT THE GUM TISSUE, CENTRAL NERVOUS SYSTEM, KIDNEYS, BLOOD AND REPRODUCTIVE SYSTEM (lead component).

**Label Precautions:**

Do not breathe dust or vapor.  
 Store in a tightly closed container.  
 Do not get in eyes, on skin, or on clothing.  
 Use only with adequate ventilation.  
 Wash thoroughly after handling.  
 Do not contact with water.

**Label First Aid:**

If swallowed, get medical attention immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

**Product Use:**

Spill Clean-Up

**Revision Information:**

MSDS Section(s) changed since last revision of document include: 3.

**Disclaimer:**

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