



*your partner in food safety*

# SDS

## Safety Data Sheet

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### 1) Product Identification

**Product Name:** Rend-R-Aid

**Product Code:** I02707

**Recommended Use:** Rendering aid for rendered fats/oils.

**Producer:** Birko Corporation  
9152 Yosemite Street  
Henderson, CO 80640-8027

**Contact Information:** (303) 289-1090 or 1-800-525-0476

**Emergency Number:** CHEMTREC 1-800-424-9300

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### 2) Hazard(s) Identification

Health	Environmental	Physical
Acute Toxicity Cat. 4 (oral) Skin Corrosion Cat. 1A Eye Effects Cat. 1 Carcinogenic Cat. 1A (vapors/mist)	Aquatic Toxicity Acute Cat. 3	Corrosive Cat. 1

**Labeling:****Symbol:****Signal Word: Danger****Corrosive, Irritant, Aquatic Toxicity**

**Hazard Statement(s):** Causes irreversible eye damage. Harmful or fatal if swallowed. Causes burns. Do not get into eyes, on skin, or on clothing. Corrosive to certain types of metals.

**Precautionary Statement(s):** Use rubber gloves, protective splash-proof goggles, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

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### 3) Composition/ Information on Ingredients

Name(s)	Synonym(s)	CAS Number	Weight %
Sulfuric Acid	Vitriol	7664-93-9	< 60%

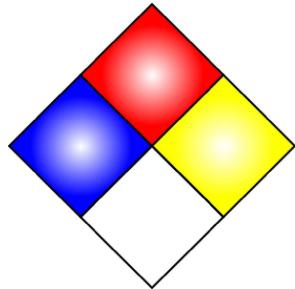
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### 4) First-Aid Measures

Inhalation	Skin Contact	Eye Contact	Ingestion
If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.	Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.	If material gets into the eyes, immediately flush eyes gently with cool water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.	Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

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## 5) Firefighting Measures



**Suitable Extinguishing Media:** Water, Carbon Dioxide, Dry Chemical, and Foam  
Blanket

**Unsuitable Extinguishing Media:** N/A

**Specific Hazards:** Always wear self-contained breathing apparatus when fighting a chemical fire.

**Hazardous Combustion:** Sulfur Oxides liberated during combustion.

**Special Protective Actions for Fire-Fighters:** N/A

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## 6) Accidental Release Measures

**Personal Precautions:** Be sure to use all necessary Personal Protective Equipment

**Environmental Precautions:** Avoid contamination of food, feed, waterway, or groundwater.

**Methods and Materials for Containment and Clean-Up:** For small spills: Cover the contaminated surface with sodium bicarbonate or a soda ash/flaked lime mixture (50/50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing procedures are essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spill area. For large spills: Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

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## 7) Handling and Storage

**Precautions for Safe Handling:** Do not contaminate food, feed, or natural water. RELEASES HEAT WHEN MIXED WITH WATER. Supplier is not responsible for disposition of this product. Do not reuse container. Containers of this material may be hazardous when emptied. Maintain an eyewash station, and safety shower in product handling areas.

**Conditions for Safe Storage:** Keep container closed when not in use. Store in a cool, dry location.

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## 8) Exposure Controls and Personal Protection

**Appropriate Engineering Controls:** Ventilation: Provide local exhaust ventilation where mist may be generated. Ensure compliance with applicable exposure limits.

### Exposure Limits:

Name (CAS-No.)	PEL	TLV	CEILING
Sulfuric Acid (7664-93-9)	1 mg/m <sup>3</sup> OSHA	3 mg/m <sup>3</sup> ACGIH	N/A

### Personal Protective Equipment

Eye/Face	Skin	Gloves	Boots
 			

**Eye/Face:** Safety glasses with Side shields. Wear chemical safety goggles with face shield when appropriate.

**Skin:** Wear chemical resistant clothing and rubber boots.

**Gloves:** Wear appropriate chemical resistant gloves.

**Protective Material Types:** Neoprene, nitrile rubber, polyvinyl chloride, polyethylene.

## 9) Physical and Chemical Properties

**Physical Form:** Liquid

**Appearance:** Colorless-yellow

**Odor:** Nearly odorless

**pH:** (1% Solution) 0.5

**Melting Point:** Not available

**Freezing Point:** < 30°F

**Boiling Point:** >220°F

**Flash Point:** Not applicable

**Evaporation Rate:** < 1

**Flammability:** Not flammable

**Upper/Lower Flammability or explosive limits:** Not applicable

**Vapor Pressure:** 8.77 @R.T.

**Vapor Density:** 2.7

**Relative Density:** Not established

**Specific Gravity:** 1.42

**Solubility:** 100%

**Partition coefficient:** Not available

**Auto-Ignition Temperature:** Not applicable

**Decomposition Temperature:** Not available

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## **10) Stability and Reactivity**

**Chemical Stability:** Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions:** This product does not polymerize.

**Conditions to Avoid:** Mixing with caustics and other strong bases.

**Materials to Avoid:** Alkali metals, strong alkalis, metals, active metals, and oxidizing agents.

**Hazardous Decomposition Products:** Sulfur Oxides liberated during combustion.

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## **11) Toxicological Information**

### **Acute Toxicity:**

<b>Test</b>	<b>Results</b>	<b>Basis</b>
Oral-Rat LD50	2140 mg/kg	Product test
Inhalation-Rat LC50	510 mg/m <sup>3</sup>	Product test

**Summary Comments:** The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation and corrosion of

tissue. Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness. Ingestion may cause irritation, corrosion/ulceration, nausea, and vomiting.

#### **Sub-chronic/Chronic Toxicity:**

**Carcinogenicity:** The IARC and NTP considers sulfuric acid mist/vapor a cancer causing agent.

**Summary Comments:** There is sufficient evidence that occupational exposure to strong-inorganic-acid mists containing sulfuric acid is carcinogenic. Occupational exposure to strong-inorganic-acid mists containing sulfuric acid is carcinogenic to humans.

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### **12) Ecological Information**

#### **Toxicity:**

<b>Test</b>	<b>Results</b>
Rainbow Trout LC50	96 hour 2.8 µg/L

**Persistence and Degradability:** No specific biodegradation test data located. Harmful ecological effects due to the pH shift are expected. Increased acidity in water will cause harm and death to aquatic organisms.

**Bioaccumulative Potential:** This material is believed not to bioaccumulate.

**Mobility in Soil:** Not available

**Other Adverse Effects:** Not available

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### **13) Disposal Considerations**

**Disposal Method:** Re-use or reprocess if possible. Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002

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### **14) Transport Information**

**UN Number:** UN2796

**UN Proper Shipping Name:** Sulfuric Acid (With not more than 51%)

**Transport Hazard Class (es):** 8

**Packing Group:** II

**Environmental Hazard(s):** N/A

**Special Precautions for User:** N/A

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## **15) Regulatory Information**

### **US Regulations:**

**CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4):**

Sulfuric Acid: 1000 lbs. RQ active basis

**SARA Title III SARA Sections 311/312 Hazardous Categories (40 CFR 370.21):**

Acute: Yes

Chronic: No

Fire: No

Reactive: Yes

Sudden Release: No

**EPCRA Section 313:**

Sulfuric Acid            7664-93-9

### **State Regulations:**

**California Proposition 65:** Products is listed

**California Worker and Community Right to Know: Substance List**

Sulfuric Acid            7664-93-9

**New Jersey Worker and Community Right to Know: Substance List**

Sulfuric Acid            7664-93-9

**Pennsylvania Right to Know Hazardous Substance List:**

Sulfuric Acid            7664-93-9

**Massachusetts Worker and Community Right to Know: Substance List**

Sulfuric Acid            7664-93-9

**Rhode Island Worker and Community Right to Know: Substance List**

Sulfuric Acid            7664-93-9

### **Canadian Regulations:**

**Controlled Products Regulations (CPR):** This product has been classified in accordance with the criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the CPR.

**WHMIS Classification:** E and D1

**National Inventory Status: U.S. Inventory (TSCA):** All the components of this substance are listed on or exempt from the inventory.

**Canada Inventory (DSL/NDSL):** All components of this product are listed on the DSL

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## 16) Other Information

### HMIS

0	FLAMMABILITY
2	HEALTH
2	REACTIVITY
J	Personal Protection

4-Severe

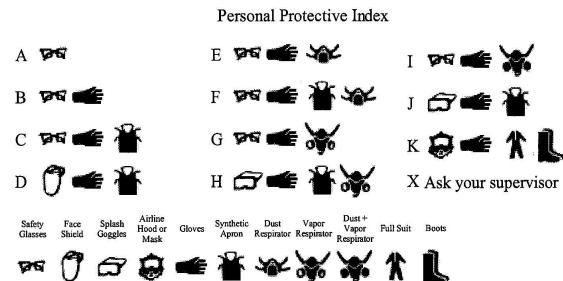
3-Serious

2-Moderate

1-Slight

0-Minimal

### Hazard Index



**Preparer:** Ramsey Johnson

**Approved By:** Terry L. McAninch

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