



**VAPCO PRODUCTS, INC.**

## **Safety Data Sheet Dry Acid Scale Remover**

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### **SECTION 1: Identification**

#### **1.1 GHS Product identifier**

Product name	Dry Acid Scale Remover
Product number	DSR-10, DSR-50
Brand	Vapco

#### **1.3 Recommended use of the chemical and restrictions on use**

Activated dry powder acid

#### **1.4 Supplier's details**

Name	Vapco Products, Inc.
Address	401 Marshall Road Valley Park, Missouri 63088 United States
Telephone	(636) 923-2121
Fax	(636) 923-3002
email	info@VapcoProducts.com

#### **1.5 Emergency phone number**

(800) 255-3924

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### **SECTION 2: Hazard identification**

#### **2.1 Classification of the substance or mixture**

**GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)**

- Eye damage/irritation, Cat. 2A
- Corrosive to metals, Cat. 1
- Skin corrosion/irritation, Cat. 2

#### **2.2 GHS label elements, including precautionary statements**

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## Pictograms



## Signal word

## Warning

### Hazard statement(s)

H290  
H315  
H319

May be corrosive to metals  
Causes skin irritation  
Causes serious eye irritation

### Precautionary statement(s)

P234  
P264  
P280  
P302+P352  
P305+P351+P338

P321  
P332+P313  
P337+P313  
P362+P364  
P390  
P406

Keep only in original container.  
Wash hands thoroughly after handling.  
Wear eye protection/face protection/protective gloves.  
IF ON SKIN: Wash with plenty of water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
Specific treatment (see First Aid on this label).  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Absorb spillage to prevent material-damage.  
Store in a corrosive resistant container with a resistant inner liner.

### Statement regarding ingredients of unknown toxicity

This product contains the following percentage of chemicals of unknown toxicity: 4%.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. Sulfamic acid

Concentration	90 - 100 % (weight)
EC no.	226-218-8
CAS no.	5329-14-6
Index no.	016-026-00-0

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

#### General advice

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### If inhaled

First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the

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buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention.

In case of skin contact

Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists.

In case of eye contact

Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

If swallowed

Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2 Most important symptoms/effects, acute and delayed

#### Acute Health Hazards

**Symptoms/Injuries:** Harmful if inhaled. May cause serious eye damage, skin burns, and respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Contact with product escaping the container may cause irritation, including but not limited to dermatitis, defatting of tissue, redness, burning, and severe skin damage. Prolonged or repeated exposure may cause irreversible skin damage including burns.

**Symptoms/Injuries After Eye Contact:** Contact with product escaping the container may cause irritation with redness, stinging, swelling, tearing, blurred vision, and eye damage. Burning may not be immediately painful or visible. Prolonged or repeated exposure may cause irreversible eye damage including corneal damage and blindness.

**Symptoms/Injuries After Inhalation:** Exposure is possible under certain conditions. Prolonged or repeated exposure may cause irreversible respiratory tract damage.

**Symptoms/Injuries After Ingestion:** Exposure may be harmful or fatal. Symptoms may include: severe gastrointestinal irritation (diarrhea, nausea, and vomiting) and burns to the mouth, throat, and digestive tract.

**Medical Conditions Aggravated by Exposure:** Skin contact may aggravate existing dermatitis or other significant skin conditions. Inhalation may adversely affect existing respiratory conditions.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Note to physician: The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, dry chemical, or sand. Use appropriate media for surrounding fire.

### 5.2 Specific hazards arising from the chemical

**Reactivity:** Chemically active metals, acids, nitrogen oxide(s), and sulphur oxide(s).

### 5.3 Special protective actions for fire-fighters

**Precautionary Fire Measures:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use dry chemical, foam, or carbon dioxide (CO<sub>2</sub>). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

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**Hazardous Combustion Products:** Oxides of nitrogen and sulphur.

### Further information

Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedure:** Eliminate ignition sources first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3 Methods and materials for containment and cleaning up

**For Containment:** Ventilate the area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Waste Disposal:** Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld. Product should be fully characterized prior to disposal (40 CFR 261).

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Pressurized container: May burst if heated. Do not pierce or burn, even after use.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

**Other Precautions:** Keep out of reach of children. Follow label instructions. Vapors may collect in low lying areas.

### 7.2 Conditions for safe storage, including any incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Strong alkalis.

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## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are being observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

#### Skin protection

Wear protective gloves and clothing.

#### Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

#### Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Color	Off-white
Odor	No distinct odor
Odor threshold	N/D
Melting point/freezing point	N/D
Boiling point or initial boiling point and boiling range	N/D
Flammability	Not considered a flammable solid by OSHA (29 CFR 1910.1200)
Lower and upper explosion limit/flammability limit	N/D
Flash point	N/D
Auto-ignition temperature	N/D
Decomposition temperature	N/D
pH	N/A
Kinematic viscosity	N/D
Solubility	Completely soluble in water
Partition coefficient n-octanol/water (log value)	N/D
Vapor pressure	>18

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Evaporation rate	<0.8 (Slow)
Density and/or relative density	N/D
Relative vapor density	1 (Air=1)

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Chemically active metals and acids.

#### 10.2 Chemical stability

Stable under normal conditions of use.

#### 10.3 Possibility of hazardous reactions

None known.

#### 10.4 Conditions to avoid

Do not mix with strong acids.

#### 10.5 Incompatible materials

Strong alkalis. May be corrosive to metals.

#### 10.6 Hazardous decomposition products

Oxides of nitrogen and sulphur.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Sulfamic acid

LD50 Oral - Rat - 3160 mg/kg

LD50 Oral - Mouse - 1312 mg/kg

##### Skin corrosion/irritation

Causes severe burns, prolonged contact will destroy tissue.

##### Serious eye damage/irritation

Causes severe burns, irritation, redness, tearing, pain, and may result in loss of sight.

##### Respiratory or skin sensitization

May cause irritation (possible severe), chemical burns, upper respiratory damage, and pulmonary edema.

##### Germ cell mutagenicity

Not classified.

##### Carcinogenicity

Not classified.

##### Reproductive toxicity

Not classified.

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### Specific target organ toxicity (STOT) - single exposure

Causes severe burns.

### Specific target organ toxicity (STOT) - repeated exposure

Dermatitis may occur due to long-term irritation.

### Aspiration hazard

Not classified.

### Additional information

#### Acute Health Hazards

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## SECTION 12: Ecological information

### Toxicity

Sulfamic acid

LC50 - Pimephales promelas (fathead minnow) - 70.3 mg/l - 96 hrs

### Persistence and degradability

This product is biodegradable.

### Bioaccumulative potential

This product is not expected to bioaccumulate.

### Mobility in soil

This product is mobile in soil.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

#### Waste treatment

This material, as supplied, is hazardous waste according to federal regulations (U.S. EPA 40CFR 261). Dispose of in accordance with federal, state, and local regulations.

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## Sewage disposal

Avoid release into the environment. Keep out of sewers and waterways.

## Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container. Product should be fully characterized prior to disposal.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN2967

Class: 8

Packing Group: III

Proper Shipping Name: Sulfamic acid

### IMDG

UN Number: UN2967

Class: 8

Packing Group: III

EMS Number: N/A

Proper Shipping Name: Sulfamic acid

### IATA

UN Number: UN2967

Class: 8

Packing Group: III

Proper Shipping Name: Sulfamic acid

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### New Jersey Right To Know Components

Common name: SULPHAMIC ACID

CAS number: 5329-14-6

#### US EPA TSCA public inventory

Chemical name: Sulfamic acid

CAS number: 5329-14-6

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## SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

### 16.1 Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which



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exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

### **16.2 Preparation information**

Prepared by: Jessica Wilson

Date prepared: 3-13-2025

