



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 03/22/2002  
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Version 1.0

### Section 1 - Product and Company Information

Product Name	DOWEX 50WX2-100 ION-EXCHANGE RESIN
Product Number	217441
Brand	Aldrich Chemical
Company	Sigma-Aldrich
Street Address	3050 Spruce Street
City, State, Zip, Country	SAINT LOUIS, MO, 63103, US
Technical Phone:	314 771 5765
Fax	800 325 5052
Emergency Phone:	414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
DOWEX 50 W X 2, H(+)-FORM, STRONGLY	12612-37-2	No
ACIDIC, 100-200 MESH		

Formula  
Synonyms

### Section 3 - Hazards Identification

**Emergency Overview**  
Irritant.  
Irritating to eyes, respiratory system, and skin.  
For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

**Oral Exposure**  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**  
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure**  
In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**  
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

### Section 5 - Fire Fighting Measures

**Conditions of Flammability**  
Product is not combustible until moisture is removed then resin starts to burn in flame at 230°C. Autoignition occurs above 500°C.

Autoignition Temp: N/A  
Flammability: N/A

#### Extinguishing Media

Suitable  
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

**Protective Equipment**  
Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard(s)**  
Emits toxic fumes under fire conditions.

#### Exposure Hazard(s)

**Material**  
Irritant.

### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s)**  
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**  
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

**User Exposure**  
Avoid contact and inhalation. Avoid prolonged or repeated exposure.

#### Storage

**Suitable**  
Keep tightly closed. Keep moist.

### Section 8 - Exposure Controls / PPE

**Engineering Controls**  
Safety shower and eye bath. Mechanical exhaust required.

#### Personal Protective Equipment

**Respiratory**  
NIOSH/MSHA-approved respirator.  
**Hand**  
Compatible chemical-resistant gloves.  
**Eye**  
Chemical safety goggles.

**General Hygiene Measures**  
Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Section 9 - Physical/Chemical Properties

Molecular Weight:	N/A
Property	Value
pH	N/A
BP/MP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatiles%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	N/A

## Section 10 - Stability and Reactivity

### Hazardous Decomposition Products

Hazardous Decomposition Products  
Carbon monoxide, Carbon dioxide, Sulfur oxides, Alkylbenzenes, vinylbenzenes, naphthalene, benzaldehydes, phenol, and organic sulfonates.

## Section 11 - Toxicological Information

### Route of Exposure

Inhalation  
Material is irritating to mucous membranes and upper respiratory tract.  
Multiple Routes  
May be harmful by inhalation, ingestion, or skin absorption. Causes irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ATECS Number:

## Section 12 - Ecological Information

## Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### IATA

Proper Shipping Name: None  
Non-Hazardous for Air Transport: Non-hazardous for air transport.

## Section 15 - Regulatory Information

### US Classification and Label Text

Indication of Danger

Irritant.

Risk Statements

Irritating to eyes, respiratory system, and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information  
SARA 313 Listed: No

## Section 16 - Other Information

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Sigma-Aldrich Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 1999 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.