

## Section 1. PRODUCT IDENTIFICATION

### Product Identifiers

Product Name: Diaion™ Resin, Weak Acid Cation Exchanger, 425-1180um.

CAS number: Mixture

Product Part Numbers: WK60L, WK60L-01, WK60L-05L, WK60L-1, WK60L-1L, WK60L-25L

Synonyms: Ion exchange resin

Recommended use: Ion exchange resin, Laboratory chemicals.

Uses advised against: None known.

### Details of the Supplier of the Safety Data Sheet:

Company: Sorbent Technologies

5955 Peachtree Corners East  
Norcross, GA 30071 USA

Emergency Telephone Number: 1-866-767-2832

## Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS

### GHS Classification of the Substance or Mixture including Precautionary Statements:

Emergency Overview: White spherical beads.

Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.

Physical hazards: Not classified

Health hazards: Serious eye damage/eye irritation, Category 2

Environmental hazards: Not classified

OSHA defined hazards: Not classified

Chronic Effects: No adverse effects expected.

Carcinogenic Effects: IARC: Not listed NTP: Not listed OSHA: Not regulated

### GHS Label Elements:

Signal word: Warning



Hazard statement: Causes Serious eye irritation.

### Precautionary Statement:

Prevention: Wash thoroughly after handling. Wear eye protection/face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Other Hazards Not Otherwise Classified (HNOC): None known.

Supplemental information: None

---

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

---

### Chemical Characterization:

Components	CAS No.	%
2-Propenoic acid polymer with diethenylbenzene	9052-45-3	30—70
Water.	7732-18-5	30—70

Synonyms: Ion exchange resin.

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret. Components not listed are either non-hazardous or are below reportable amounts.

---

## Section 4. FIRST AID MEASURES

---

### Description of First Aid Measures

**Skin:** Wash material off skin with soap and water. Seek medical attention if irritation develops and persists. If burned by hot material cold skin as quickly as possible with water. See physician for treatment of burn.

**Eyes:** Do not rub eyes. Flush with copious amounts of water for 15 minutes while holding eyelids apart. Remove contact lenses, if present and easy to do. Seek medical attention if irritation develops and persists.

**Ingestion:** Rinse the mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into lungs. Seek medical attention if gastrointestinal symptoms develop.

**Inhalation:** Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop or persists.

### Most Important Symptoms and Effects, both acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. When heated, the vapors/fumes given off may cause respiratory tract irritation. Contact with hot material cause thermal burns which may result in permanent damage.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### General Information

Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

---

## Section 5. FIRE-FIGHTING MEASURES

---

**Suitable Extinguishing Media:** Water fog. Foam. Dry chemicals. Carbon dioxide (CO<sub>2</sub>)

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread fire.

**Specific Hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

Flammability Limits in Air: LFL and UFL Not Applicable.

Auto-ignition temperature: Not available

### Protective Equipment and precautions for firefighters:

Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.

### Protection of fire-fighters:

Fire Fighting Instructions: Cool containers exposed to heat with water spray and remove container from the area if you can do so with risk. Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.

**General fire hazards:** Will burn if involved in a fire.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

---

## Section 6. ACCIDENTAL RELEASE MEASURES

---

### Personal Precautions, Protective Equipment and Emergency Procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Surfaces may become slippery after spillage. Wear suitable protective clothing and gloves. For personal protection, see section 8 of the SDS.

### Environmental Precautions:

Prevent spilled resins from entering sewers or waterways or onto ground.

### Methods for Containment:

Stop the flow of material, if this is without risk.

### Methods for Clean-up:

If a Spill or Leak Occurs: Ventilate the contaminated area. Clean up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices.

These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing. Prevent product from entering drains.

Disposal Method: Sweep up or vacuum up and shovel into suitable contains for disposal. Dispose in a facility for non-hazardous wastes. Spent should be disposed of in accordance with State and Federal laws.

Container Disposal: Do not reuse empty bags or drums. Dispose of used bags in facility permitted for non-hazardous wastes.

---

## Section 7. HANDLING AND STORAGE

---

### Precautions for Safe Handling

Handling: Avoid inhalation of fumes from heated product. Avoid prolonged contact with eyes and skin. Do not breath dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling. Avoid release to the environment.

### Conditions for Safe Storage, Including any Incompatibilities

Storage: Store in cool, dry, ventilated area and in closed containers. Store above freezing. Keep away from oxidizers, sunlight, heat or flames. Store away form ignition sources. Do not store above 24 deg. C.

---

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### Control Parameters

Occupational Exposure Guidelines: No exposure limits noted for ingredients.

---

Component	OSHA PEL	ACGIH TLV
2-Propenoic acid polymer with diethenylbenzene(9052-45-3)	Not established	Not established (TWA)

---

ACGIH is the American Conference of Governmental Industrial Hygienists

OSHA is the Occupational Safety and Health Administration

NIOSH is the National Institute of Occupational Safety and Health

PEL is the Permissible Exposure Limits established by OSHA.

TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

MSHA is the Mine Safety and Health Administration

## Exposure Controls

**Engineering Controls:** Provide eyewash station. Use local exhaust to control emissions near the source.

Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

**Eye Protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Full contact material: Nitrile rubber of minimum layer thickness 0.11 mm and break through time 480 minutes.

**Body protection:** Choose protection in relation to its type, to the concentration and the amount of any dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and of the amount of any dangerous substances at the specific workplace.

**Respiratory Protection:** Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN149. Keep dust exposure to a minimum with engineering and administrative controls.

Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Use type N95 (US) or type P1 (EN 143) dust masks for nuisance levels of dust.

**Hand Protection:** Wear appropriate chemical resistant gloves. Suites can be recommended by the glove supplier

## General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

## Environmental Exposure Controls

No special environmental precautions required. Avoid release to the environment.

---

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

---

Appearance:	
Physical State:	Solid.
Color:	Light yellow opaque.
Form:	Spherical beads.
Odor:	Slight amine odor.
Odor Threshold:	No data available.
pH:	Not applicable.
Melting Point/Range:	Not applicable.
Boiling Point/Range:	Not applicable.
Flash Point:	Not applicable.
Evaporation Rate:	Not applicable.
Flammability (solid, gas); Flammability or Explosive Limits	Will burn if involved in a fire.
Upper:	Not applicable.
Lower:	Not applicable.
Vapor Pressure:	Not applicable.
Vapor Density:	Not applicable.
Relative Density:	1.2 at 25 deg. C (water =1).
Solubility (water):	Insoluble.
Solubility (solvents):	Insoluble .
Partition Coefficient; n-octanol/water:	Not available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	Not available
Viscosity:	Not applicable.
Bulk density:	0.8 kg/L (approximate).
Explosive properties:	Not explosive.
Flammability:	Not applicable.
Oxidizing properties:	Not oxidizing.

---

## Section 10. STABILITY AND REACTIVITY

---

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Contact or mixture with oxidizing agent such as nitric acid may cause ignition or explosion.

### Chemical Stability

This product is stable under normal conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight. Do not store above 24 deg. C.

### Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

### Conditions to Avoid

Contact with incompatible materials. Freezing.

### Incompatible Materials

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion.

### Hazardous Decomposition Products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Thermal decomposition can lead to release of irritating gases and vapors such as NO<sub>x</sub>, HCl, and carbon oxides.

---

## Section 11. TOXICOLOGICAL INFORMATION

---

### Information on Toxicological Effects

#### Acute Toxicity

Component	LD50	LD50	LC50
	Oral	Dermal	Inhalation
2-Propenoic acid polymer with diethenylbenzene (9052-45-3)	N/A	N/A	N/A

**Routes of Exposure:** Eye contact:: Causes serious eye irritation. Molten material will produce thermal burns.

Skin contact.: Prolonged skin contact may cause temporary irritation. Molten material will produce thermal burns.

Inhalation: Inhalation of vapor/fumes from heated product can cause respiratory tract irritation.

Ingestion: May cause discomfort if swallowed.

**Toxicologically Synergistic Products:** Occupational exposure may not cause adverse effects.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure**

**Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation:** Causes serious eye irritation .

**Respiratory Sensitization:** Not a respiratory sensitizer. Not a skin sensitizer.

**Skin Sensitization:** This product is not expected to cause skin sensitizer.

**Carcinogenicity:** Table below indicates if each agency has listed any ingredient as a Carcinogen. Not classifiable as to carcinogenicity to humans.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA	Mexico
2-Propenoic acid polymer with diethenylbenzene	9052-45-3	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Effects:** This product is not expected to cause reproductive or developmental effects.

**Developmental Effects:** No information available.

**Teratogenicity:** No information available.

**Specific Target Organ Toxicity (STOT)-single exposure:** Not classified.

**Specific Target Organ Toxicity (STOT)-repeated exposure:** Not classified.

**Aspiration:** Not an aspiration hazard.

**Symptoms / Effects, Both Acute and Delayed:** Prolonged inhalation may be harmful.

**Endocrine Disruptor Information:** No information available.

**Symptoms:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision

**Other Adverse Effects:** The toxicological properties have not been fully investigated.

---

## Section 12. ECOLOGICAL INFORMATION

---

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

### Environmental effects

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Persistence/ Degradability

No data is available on the degradability of this product.

### Bioaccumulation Potential

No information available.

**Aquatic toxicity:** Not expected to be harmful to aquatic organisms.

### Mobility in Soil

No information available.

### Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

---

## Section 13. DISPOSAL CONSIDERATIONS

---

### Waste Treatment Methods

Disposal methods: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from Residues: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Local regulations may be more stringent than state or federal requirements.

---

## Section 14. TRANSPORTATION INFORMATION

---

Land:	<b>DOT (US):</b>	Not regulated
	<b>ADR/RID (EU):</b>	Not regulated
	<b>TDG (Canada):</b>	Not regulated

Water:	<b>IMO/IMDG:</b>	Not regulated
Air:	<b>IACO/IATA:</b>	Not regulated

**Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

### Special Precautions for User

No information available

---

## Section 15. REGULATORY INFORMATION

---

### Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICIS	IECSC	KECL
9052-45-3	X	X	-	-	-	-	X	X	X	X	-

X indicates listed

### U.S. Federal Regulations

TSCA: CAS# 9052-45-3 is listed on the TSCA inventory. Not regulated.

CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.

SARA Codes: CAS# 9052-45-3:

SARA 311/312 Hazardous Categorization:

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive Hazard:	No

SARA Section 313: Not regulated

Clean Air Act:

This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

OSHA: Not applicable

CERCLA: Not applicable

### U.S. Department of Transportation (DOT)

Reportable Quantity (RQ): No

DOT Marine Pollutant: No

DOT severe Marine Pollutant: No

### U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

### States Right-to-Know

CAS# 9052-45-3

California Prop 65: Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts: Not regulated.

New Jersey Right to Know: Not listed.

Pennsylvania: Not listed.

Florida: No data.

Rhode Island: Not regulated.

Illinois: No data.

Connecticut - Hazardous Air pollutants: No data.

### Canadian Classification

WHMIS: Non-controlled.

DSL: Listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: None

### Mexico—Grade

No information available.

---

## **Section 16. OTHER INFORMATION**

---

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to these products or handling of these products. Customers/users must comply with all applicable health and safety laws, regulations, and orders*

*SDS REVISION SUMMARY: Revision 001 dated 11/16/2022  
replaces revision 000 dated 08/18/2020.*

*This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)*