An ISO9001 Certified Company

Material Safety Data Sheet
DPD Solution, APHA for Chlorine

Section 1 - Chemical Product and Company Identification

MSDS Name:
DPD Solution, APHA for Chlorine
Catalog Numbers:
LC13700
Synonyms:
None

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	>99
7664-93-9	Sulfuric Acid	0.2
6283-63-2	DPD Sulfate	0.1
6381-92-6	EDTA, Disodium, Dihydrate	0.02

Section 3 - Hazards Identification

Emergency Overview

Appearance: *clear, colorless to light yellow solution*
Caution! *May cause eye and skin irritation. May be harmful if swallowed.*
Target Organs: *eyes, skin, respiratory tract, kidneys*

Potential Health Effects

Eye:
May cause mild eye irritation.
Skin:
May cause mild skin irritation.
Ingestion:
May cause irritation of the gastrointestinal tract.

Inhalation:
May cause respiratory tract irritation.
Chronic:
May cause adverse kidney effects.

Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid.
Skin:
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:
Do not induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.
Inhalation:
Move victim to fresh air immediately. Get medical aid if irritation or other symptoms appear.
Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media:
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.
Autoignition Temperature:
Not available
Flash Point:
Not available
NFPA Rating:
Health- 1, Flammability- 0, Instability- 0
Explosion Limits:
Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage:

Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None listed	None listed	None listed
Sulfuric Acid	0.2 mg/m3 TWA	1 mg/m3 TWA 15 mg/m3 IDLH	1 mg/m3 TWA
DPD Sulfate	None listed	None listed	None listed
EDTA, Disodium, Dihydrate	None listed	None listed	None listed

OSHA Vacated PELs:

Sulfuric acid: 1 mg/m3 TWA

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State:	Liquid
Color:	Colorless to slight yellow
Odor:	Odorless
pH:	Slightly acidic
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	Not available

Freezing/Melting Point:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	1.0
Molecular Formula:	Not available
Molecular Weight:	Not available

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, excess heat.
Incompatibilities with Other Materials:
Strong bases.
Hazardous Decomposition Products:
Nitrogen oxides, sulfur oxides, carbon monoxide, carbon dioxide
Hazardous Polymerization:
Has not been reported.

Section 11 - Toxicological Information

RTECS:
CAS# 7732-18-5: ZC0110000
CAS# 7664-93-9: WS5600000
CAS# 6283-63-2: SS9625000
CAS# 6381-92-6: AH4410000
LD50/LC50:
CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg
CAS# 7664-93-9:
Inhalation, rat: LC50 = 510 mg/m3/2H
Oral, rat: LD50 = 2140 mg/kg
CAS# 6283-63-2:
Not available
CAS# 6381-92-6:
Not available
Carcinogenicity:
None of the components of this product are listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or California Proposition 65.
Epidemiology:
Not available
Teratogenicity:
Not available
Reproductive:
Not available
Mutagenicity:
Not available

Neurotoxicity:
Not available

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 7664-93-9 is listed on the TSCA Inventory.
CAS# 6283-63-2 is listed on the TSCA Inventory.
CAS# 6381-92-6 is not listed on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR 720.3(u)(2)).

SARA Reportable Quantities (RQ):

CAS# 7664-93-9: final RQ = 1000 lb. (454 kg)

CERCLA/SARA Section 313:

Sulfuric acid is not at a high concentration to be reportable under Section 313.

OSHA - Highly Hazardous:

None of the components of this product are considered highly hazardous by OSHA.

US State

State Right to Know:

Sulfuric acid is listed on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, and Massachusetts.

California Regulations:

None

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7664-93-9 is listed on Canada's DSL List.
CAS# 6283-63-2 is not listed on Canada's DSL or NDSL Lists.
CAS# 6381-92-6 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 7664-93-9 is listed on Canada's Ingredient Disclosure List.
CAS# 6283-63-2 is not listed on Canada's Ingredient Disclosure List.
CAS# 6381-92-6 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

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