ACC# 94416

Fisher Diagnostics

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Version: 1

Material Safety Data Sheet

FDP Glycine Buffered Saline

Section 1 - Chemical Product and Company Identification

MSDS Name:

FDP Glycine Buffered Saline

Catalog Numbers:

200665

Synonyms:

None Known.

Company Identification:

Fisher Diagnostics
Fisher Scientific Company LLC
8365 Valley Pike
Middletown, VA 22645-0307

Company Phone Number:

(800) 528-0494

Emergency Phone Number:

(800) 528-0494

CHEMTREC Phone Number:

800-424-9300

CHEMTREC (International):

703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent	EINECS/ ELINCS
56-40-6	Glycine	<1.0	200-272-2
7791-18-6	Magnesium chloride, hexahydrate	<1.0	Not available
7732-18-5	Water	97-98	231-791-2
7647-14-5	Sodium chloride	1.0	231-598-3
26628-22-8	Sodium azide	0.01	247-852-1

Section 3 - Hazards Identification

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

No information found

Inhalation:

May cause respiratory tract irritation.

Chronic:

No information found.

Section 4 - First Aid Measures

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

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:

Use extinguishing media most appropriate for the surrounding fire.

Autoignition Temperature:

No information found

Explosion Limits:

Lower: Upper:

Flash Point:

No information found

NFPA Rating:

(estimated) Health: 1; Flammability: 0; Reactivity: 0

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

No information found

Section 7 - Handling and Storage

Handling:

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

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Glycine	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Magnesium chloride, hexahydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium chloride	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sodium azide	0.29 mg/m3 Ceiling (as NaN3); 0.11 ppm Ceiling (vapor, as hydrazoic acid)	0.1 ppm Ceiling (as HN3); 0.3 mg/m3 Ceiling (as NaN3)	None of the components are on this list.

OSHA Vacated PELs

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 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Respirator protection is not normally required.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear colorless

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Odor:	No information found
pH:	7.6-8.6
Vapor Pressure:	No information found
Vapor Density:	No information found
Evaporation Rate:	No information found
Viscosity:	No information found
Boiling Point:	No information found
Freezing/Melting Point:	No information found
Decomposition Temperature:	No information found
Solubility in water:	
Specific Gravity/Density:	No information found
Molecular Formula:	Solution
Molecular Weight:	No information found

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Excess heat.

Incompatibilities with Other Materials

strong oxidizing agents.

Hazardous Decomposition Products

None.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 56-40-6: MB7600000.
CAS# 7791-18-6: OM2975000.
CAS# 7732-18-5: ZC0110000.
CAS# 7647-14-5: VZ4725000.
CAS# 26628-22-8: VY8050000.

LD50/LC50:

CAS# 56-40-6:
Oral, mouse: LD50 = 4920 mg/kg
Oral, rat: LD50 = 7930 mg/kg.
CAS# 7791-18-6:
Oral, mouse: LD50 = 7600 mg/kg
Oral, rat: LD50 = 8100 mg/kg.
CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.
CAS# 7647-14-5:
Draize test, rabbit, eye: 100 mg Mild
Draize test, rabbit, eye: 100 mg/24H Moderate
Draize test, rabbit, eye: 10 mg Moderate
Draize test, rabbit, skin: 50 mg/24H Mild
Draize test, rabbit, skin: 500 mg/24H Mild
Inhalation, rat: LC50 = >42 gm/m3/1H
Oral, mouse: LD50 = 4 gm/kg
Oral, rat: LD50 = 3000 mg/kg
Skin, rabbit: LD50 = >10 gm/kg.
CAS# 26628-22-8:
Inhalation, mouse: LC50 = 32400 ug/m3
Inhalation, rat: LC50 = 37 mg/m3
Oral, mouse: LD50 = 27 mg/kg
Oral, rat: LD50 = 27 mg/kg
Skin, rabbit: LD50 = 20 mg/kg
Skin, rat: LD50 = 50 mg/kg.

Carcinogenicity:

CAS# 56-40-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7791-18-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7647-14-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 26628-22-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information available.

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

Neurotoxicity:

No information found

Other:

The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

No information found

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Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes

CAS# 26628-22-8: waste number P105.

RCRA U Series Wastes

None of the components are on this list.

Section 14 - Transport Information

	US DOT	Canadian TDG
Proper Shipping Name:	Not Regulated	Not Regulated
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 56-40-6 is listed on the TSCA Inventory.
CAS# 7791-18-6 is not on the TSCA Inventory. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory. (40CFR720.3(u)(2)).
CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 7647-14-5 is listed on the TSCA Inventory.
CAS# 26628-22-8 is listed on the TSCA Inventory.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

CAS# 26628-22-8: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 26628-22-8: 500 lb TPQ (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solvent form)

SARA Hazard Categories

CAS# 7647-14-5: acute.
CAS# 26628-22-8: acute, chronic, reactive.

CERCLA/SARA Section 313

Sodium azide is not at a high enough concentration to be reportable under Section 313.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors

None of the components are on this list.

Clean Water Act - Hazardous Substances

None of the components are on this list.

Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Sodium azide can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Regulations

CAS# 56-40-6: No information found
CAS# 7791-18-6: No information found
CAS# 7732-18-5: No information found
CAS# 7647-14-5: No information found
CAS# 26628-22-8: No information found

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols:
Risk Phrases:
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 56-40-6: 0
CAS# 7791-18-6: 0
CAS# 7732-18-5: No information found
CAS# 7647-14-5: 0
CAS# 26628-22-8: 2

United Kingdom Occupational Exposure Limits

No information found

Canadian DSL/NDSL

CAS# 56-40-6 is listed on Canada's DSL List.
CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 7647-14-5 is listed on Canada's DSL List.
CAS# 26628-22-8 is listed on Canada's DSL List.

Canadian WHMIS Classifications

This product does not have a WHMIS classification.

Canadian Ingredient Disclosure List

CAS# 56-40-6 is not listed on Canada's Ingredient Disclosure List.
CAS# 7791-18-6 is not listed on Canada's Ingredient Disclosure List.
CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 7647-14-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 26628-22-8 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 56-40-6: OEL-RUSSIA:STEL 5 mg/m3
CAS# 26628-22-8: OEL-AUSTRALIA:TWA 0.1 ppm (0.3 mg/m3)
OEL-BELGIUM:STEL 0.11 ppm (0.3 mg/m3)
OEL-DENMARK:TWA 0.3 mg/m3
OEL-FINLAND:TWA 0.1 ppm (0.3 mg/m3);STEL 0.3 ppm (0.9 mg/m3)
OEL-FRANCE:STEL 0.1 ppm (0.3 mg/m3)
OEL-GERMANY:TWA 0.07 ppm (0.2 mg/m3)
OEL-THE NETHERLANDS:TWA 0.1 ppm (0.3 mg/m3)
OEL-SWITZERLAND:TWA 0.07 ppm (0.2 mg/m3)
OEL-UNITED KINGDOM:TWA 0.1 ppm (0.3 mg/m3);STEL
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Other Information

Color information has been
MSDS Creation Date: September 10, 2007
Revision Date: September 10, 2007

Revisions were made in Sections:

2, 3, 6, 8, 9, 10, 11, 14, 16

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