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1. Identification of the substance/preparation and the company/undertaking

GHS product identifier

Product name: Prednisolone Sodium Phosphate Oral Solution

Other means of identification

Product code(s): **0121-0777-08**
UN-Number: NA
Synonyms: 1-Dehydrohydrocortisone

Recommended use of the chemical and restrictions on use

Recommended use: Pharmaceutical product used for corticosteroid therapy.
Uses advised against: Do not use except as recommended.

Supplier address/information

Pharmaceutical Associates, Inc.
201 Delaware Street
Greenville, SC 29605 (864) 277 -7282

Emergency telephone number: CHEMTREC 800.424.9300

2. Hazards Identification

Classification This product is a mixture and is a pharmaceutical product. It is considered non-Hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).**Chemical family:** Mixture**Statement of Hazard:** Product is safe when used as recommended.

Additional Hazard Information:

Short term: Corticosteroids may mask some signs of infection, and new infections may appear during their use.**Long term:** Prolonged use of corticosteroids may product posterior subcapsular cataracts, glaucoma with possible damage to the optic nerves, and may enhance the establishment of secondary ocular infections due to fungi or viruses.**Known Clinical Effects:** Prolonged use of the drug can produce mental symptoms, moon face, abnormal fat deposits, fluid retention, excessive appetite, weight gain, hypertrichosis, acne, striae, ecchymosis, increased sweating, pigmentation, dry scaly skin, thinning scalp hair, increased blood pressure, tachycardia, thrombophlebitis, decreased resistance to infection, negative nitrogen balance with delayed bone and wound healing, headache, weakness, menstrual disorders, accentuated menopausal symptoms, neuropathy, fractures, osteoporosis, peptic ulcer, decreased glucose tolerance, hypokalemia, and adrenal insufficiency. Hepatomegaly and abdominal distention have been observed in children.**EU Indication of danger:** Not classified

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Emergency overview

Seek medical attention in case of accidental exposure or overdose. The product is generally safe when used as prescribed.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the active substance or its intermediates regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential of exposure in your workplace.

Precautionary statements

General advice: Seek medical attention in case of accidental exposure or overdose.

Eyes: Avoid contact with eyes.

Skin Contact: Avoid skin contact.

Inhalation: Not intended for inhalation.

Ingestion: Generally safe at recommended doses. In case of overdose, seek medical attention immediately.

Storage: There are no special storage conditions for safety. For product integrity, store under conditions specified on the label.

Disposal: Dispose of in accordance with applicable laws and regulations.

3. Composition/Information on ingredients

Chemical name	CAS-No	mg/5 mL	Trade Secret
Prednisolone Sodium Phosphate	125-02-0	20 mg/5 mL (as the base)	
Methylparaben	99-76-3		X
Edetate Disodium	6381-92-6		X
Hydroxyethylcellulose	9004-62-0		X
Glycerin	56-81-5		X
Sodium Saccharin	6155-57-3		X
Potassium Phosphate Dibasic	7758-11-4		X
Potassium Phosphate Monobasic	7778-77-0		X
High Fructose Corn Syrup	Mixture		X
Grape Flavor	Mixture		X

4. First aid measures

Description of necessary first-aid measures

Eye contact:

Flush with running water for 15 minutes holding eyelids open. Contact medical personnel if irritation persists.

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Skin contact:

Wash contaminated area thoroughly. If irritation persists, contact medical personnel.

Inhalation:

Remove to fresh air and contact medical personnel.

Ingestion:

Overdosage or accidental ingestion –. Contact medical personnel or poison control center immediately if overdosage is suspected

Most important symptoms/effects, acute and delayed

The effects of accidental ingestion of large quantities of prednisolone over a very short period of time have not been reported.

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

No data available

Notes to Physician: NA

5. Fire-fighting measures

Suitable extinguishing media:

Use carbon dioxide, dry chemical or water spray.

Specific hazards arising from the chemical

Not applicable

Explosion data:

Not applicable

Protective equipment and precautions for firefighter

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (See Section 8). Minimize exposure.

Environmental precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and materials for containment and cleaning up

- Methods for containment:
- Methods for cleaning up:

Isolate area around spill as specified by site procedures. Absorb the liquid with suitable material. Dispose of spill material in accordance with applicable federal, state or local regulations.

7. Handling and storage

Precautions for safe handling

Handling:

No special handling required for hazard control under conditions of normal product use.

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Conditions for safe storage, including any incompatibilities

Storage: No special storage required for hazard control. For product protection, follow storage recommendations on the case label, primary product label and insert.

Incompatible products: As a precautionary measure, keep away from strong oxidizers.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines The exposure guidelines listed below are for the individual components and not the product itself.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Prednisolone Sodium Phosphate	Not Available	Not Available	Not Available
Methylparaben	Not Available	Not Available	Not Available
Edetate Disodium	Not Available	Not Available	Not Available
Hydroxyethylcellulose	Not Available	Not Available	Not Available
Glycerin	10 mg/m ³ TWA	10 mg/m ³ TWA	Not Available
Sodium Saccharin	Not Available	Not Available	Not Available
Potassium Phosphate Dibasic	Not Available	Not Available	Not Available
Potassium Phosphate Monobasic	Not Available	Not Available	Not Available
Grape Flavor	Not Available	Not Available	Not Available

Appropriate engineering controls

Engineering measures: Engineering controls should be used to limit exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection: Not required under normal conditions of use. Wear safety glasses or goggles if eye contact is possible.

Skin and body protection: Not required under normal conditions of use. Wear protective clothing when working with large quantities.

Respiratory protection: Not required under normal use of the product. If the applicable PEL (Permissible Exposure Limit) is exceeded use an appropriate respirator.

Hygiene measures: Wash hands thoroughly after use.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Solution
 Odor: Faint grape
 Appearance: Clear yellow liquid (may darken on storage)
 Odor threshold: Not available

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Property	Values	Remarks/Method
pH	6.2 – 8.2	Current USP
Melting point/range	Not applicable	
Boiling point/boiling range	Not available	
Flash point	Not applicable	
Evaporation rate	Not applicable	
Flammability (solid, gas)	Not applicable	
Flammability limits in air	Not applicable	
-upper flammability limit	Not applicable	
-lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Specific gravity	1.07	Current USP
Water solubility	Not applicable	
Solubility in other solvents	Not applicable	
Partition coefficient: n-octanol/water	Not applicable	
Autoignition temperature	Not applicable	
Decomposition temperature	Not applicable	
Viscosity	Not available	
Flammable properties	Not applicable	
Explosive properties	Not applicable	
Oxidizing properties	Not applicable	

Other information VOC content (%) NA

10. Stability and reactivity

Reactivity	Stable at normal conditions
Chemical stability	Stable at normal conditions
Possibility of hazardous reactions	Stable at normal conditions
Conditions to avoid	None known
Incompatible materials	As a precautionary measure, keep away from strong oxidizers.
Hazardous decomposition products	None known

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11. Toxicological information

Information on likely routes of exposure

Product information:

- Inhalation: Not Available
- Eye contact: Not Available
- Skin contact: Not Available
- Ingestion: Not Available

The information in the table below is for the individual components and not the product.

Chemical name	LD50 oral	LD50 dermal	LC50 inhalation
Prednisolone Sodium Phosphate	Not Available	Not Available	Not Available
Methylparaben	2100 mg/kg Rat	No skin irritation 24 hr. Rabbit	Not Available
Edetate Disodium	>2000 mg/kg Rat	Not Available	Not Available
Hydroxyethylcellulose	Not Available	Not Available	Not Available
Glycerin	12600 mg/kg Rat	10000 mg/kg Rabbit	Not Available
Sodium Saccharin	14200 mg/kg Rat	Not Available	Not Available
Potassium Phosphate Dibasic	Not Available	Not Available	Not Available
Potassium Phosphate Monobasic	>2000 mg/kg Rat	>4640 mg/kg Rabbit	Not Available
High Fructose Corn Syrup	Not Available	Not Available	Not Available
Grape Flavor	Not Available	Not Available	Not Available

Symptoms related to the physical, chemical and toxicological characteristics:

No data available

Delayed and immediate effects and also chronic effects from short and long term exposure

- Sensitization: No data available
- Mutagenic effects: No data available
- Carcinogenicity: Not carcinogenic
- Reproductive toxicity: No data available
- STOT – single exposure: No data available
- STOT – repeated exposure: No data available
- Aspiration hazard: No data available
- Numerical measures of toxicity – product No data available

12. Ecological information

Ecotoxicity:

Environmental properties have not been thoroughly evaluated. Releases to the environment should be avoided.

Persistence and Degradability

No data available

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Bioaccumulation

No data available

Other adverse effects:

No data available

The following table lists the data for the individual components, if available.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to micro-organisms	Daphnia Magna (water flea)
Prednisolone Sodium Phosphate	Not Available	Not Available	Not Available	Not Available
Methylparaben	91 mg/L 72 hr. Pseudokirchneriella subcapitata	59.5 mg/L 89 hr Oryzias latipes	Not Available	41.1 mg/L 48 hr
Edetate Disodium	10 – 100 mg/L 72 hr	>500 mg/kg 96 hr Leuciscus idus	Not Available	>100 mg/L 24 hr.
Hydroxyethylcellulose				
Glycerin	Not Available	58.5 ppm 96 hr Trout	Not Available	Not Available
Sodium Saccharin	Not Available	Not Available.	Not Available	Not Available
Potassium Phosphate Dibasic	Not Available	Not Available.	Not Available	Not Available
Potassium Phosphate Monobasic	Not Available	Not Available.	Not Available	Not Available
High Fructose Corn Syrup	Not Available	Not Available.	Not Available	Not Available
Grape Flavor	Not Available	Not Available.	Not Available	Not Available

13. Disposal considerations

Waste disposal methods

Dispose of waste in accordance with all federal, state and local regulations.

Contaminated packaging

Dispose of waste in accordance with all federal, state and local regulations.

14. Transport information

Notes:

Not regulated for transport under USDOT, IATA, TDG, IMDG or other regulations.

15. Regulatory information

International inventories

EINECS:

Prednisolone Sodium Phosphate, Methylparaben, Edetate Disodium, Hydroxyethylcellulose, Glycerin, Sodium Saccharin, Potassium Phosphate Dibasic, and Potassium Phosphate Monobasic are listed on the EINECS.

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TSCA:

United States Toxic Substances Control Act 8(b) inventory not applicable for product. The following components are included on the inventory: Prednisolone Sodium Phosphate, Methylparaben, Hydroxyethylcellulose, Glycerin, Sodium Saccharin, Potassium Phosphate Dibasic, and Potassium Phosphate Monobasic

U.S. Federal regulations

OSHA Label: Not applicable

US DEA: Not applicable

SARA 311/312 Hazard categories:

Not Applicable

Clean Water Act:

This product **does not** contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

No components are listed under CERCLA.

California Proposition 65:

This product contains Sodium Saccharin and Prednisolone Sodium Phosphate which are listed on California Proposition 65 list of chemicals as a chemical which has been found to cause cancer, birth defects or reproductive harm.

U.S. state Right-to-Know regulations

"X" designates that the ingredients are listed on the state Right-to-Know list

Chemical name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Prednisolone Sodium Phosphate			X		
Methylparaben	X		X		
Edetate Disodium	X		X		
Hydroxyethylcellulose	X		X		
Glycerin	X	X	X	X	X
Sodium Saccharin	X	X	X		
Potassium Phosphate Dibasic	X		X		
Potassium Phosphate Monobasic	X		X		
High Fructose Corn Syrup					
Grape Flavor					

U.S. EPA label information:

Not applicable

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16. Other information

Prepared by:	Pharmaceutical Associates Regulatory Affairs	Department
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Revision note:	NA	

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet