

2985



MATERIAL SAFETY DATA SHEET

Revision date: 02-Aug-2006

Version: 2.0

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Pfizer Consumer Healthcare
Pfizer Inc
201 Tabor Road
Morris Plains, NJ 07950

Pfizer Ltd
Walton Oaks
Dorking Road
Tadworth
Surrey KT20 7NS, UK
+00 44 (0)1304 616161

Emergency telephone number:
CHEMTREC (24 hours): 1-800-262-8200

Emergency telephone number:
ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: VISINE® Original

Trade Name: Visine
Chemical Family: Mixture
Intended Use: minor eye irritation and redness

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Tetrahydrozoline hydrochloride	522-48-5	208-329-3	0.05
Benzalkonium chloride	8001-54-5	Not listed	*
Boric acid	10043-35-3	233-139-2	*
Sodium borate	1303-96-4	Not listed	*

Ingredient	CAS Number	EU EINECS List	%
Edetate disodium	139-33-3	205-358-3	*
Sodium chloride	7647-14-5	231-598-3	*
Purified water	7732-18-5	231-791-2	*

Additional Information:

* Proprietary
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

3. HAZARDS IDENTIFICATION

Appearance: Clear, colorless solution
Signal Word: None required

Statement of Hazard: Non-hazardous in accordance with international standards for workplace safety.

Eye Contact: May cause minor eye irritation.

Skin Contact: May cause irritation based on components.

Inhalation: May cause mucous membrane and respiratory tract irritation.

Ingestion: Not acutely toxic (based on animal data). See 'Other potential health effects', below.

Known Clinical Effects: Adverse effects associated with the therapeutic use of Visine may include minor burning, stinging or redness of the eye, and transient dilation of pupils.

Potential Health Effects: Ingestion of tetrahydrozoline hydrochloride may cause changes in blood pressure, irregular or rapid heart rate, faintness, drowsiness, headache, nausea, and stroke. Individuals sensitive to this material or other materials in its chemical class may develop allergic reactions.

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EU Indication of danger: Not classified

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients 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 for exposure in your workplace.

4. FIRST AID MEASURES

Eye Contact: Flush with water for 15 minutes. If irritation occurs or persists, get medical attention.

Skin Contact: Remove clothing and wash affected skin with soap and water. If irritation occurs or persists, get medical attention.

Ingestion: Get medical attention. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media: As for primary cause of fire.

Hazardous Combustion Products: May emit toxic fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen, chlorine and ammonium fumes

Fire Fighting Procedures: Wear approved positive pressure, self-contained breathing apparatus and full protective turn out gear.

Fire / Explosion Hazards: Not flammable.

Additional Information: This product is a nonflammable aqueous solution.

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions: Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Measures for Cleaning / Collecting: Absorb spills with non-combustible absorbent material and transfer into a labeled container for disposal. Clean spill area thoroughly.

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

Additional Consideration for Large Spills: Collect spill with a non-combustible absorbent material. Transfer all waste to a labeled container and move it to a secure holding area.

Additional Information: Review Sections 3, 8 and 12 before proceeding with clean up.

7. HANDLING AND STORAGE

General Handling: Use adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing.

Storage Conditions: Store in a cool, dry, well-ventilated area.

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Storage Temperature: 15-30°C (59-86°F)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Boric acid

ACGIH OELs - Notice of Intended Changes Listed

Sodium borate

ACGIH Threshold Limit Value (TWA) 5 mg/m³ TWA
ACGIH OELs - Notice of Intended Changes Listed

The exposure limit(s) listed for solid components are only relevant if dust or mist may be generated.

The purpose of the Occupational Exposure Band (OEB) is to separate substances into different hazard categories and provide an exposure control and containment strategy for the compound as detailed in this section. The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to alteration when new information becomes available.

Tetrahydrozoline hydrochloride

Pfizer Occupational Exposure Band (OEB): OEB3 (control exposure to the range of >10ug/m³ to < 100ug/m³)

Engineering Controls: Engineering controls should be used as the primary means to control exposures. Local and general ventilation should be used as necessary, when handling this material in bulk.

Personal Protective Equipment:

Hands: Not required for the normal use of this product. Wear protective gloves when working with large quantities.
Eyes: Not required for the normal use of this product. Wear safety glasses or goggles if eye contact is possible.
Skin: Not required for the normal use of this product. Long sleeves and pants (impervious clothing) should be worn for protection when handling this material in bulk.
Respiratory protection: Not required for the normal use of this product. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Sterile solution	Color:	Colorless
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solubility:	Soluble: Water		
pH:	6.3-6.5		
Flash Point (°C):	Non-flammable		
Specific Gravity:	1.005-1.008		

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: None known
Incompatible Materials: Oxidizing agents, reducing agents
Hazardous Decomposition Products: Thermal decomposition products include carbon and nitrogen oxides, hydrogen, chlorine, and ammonium fumes
Polymerization: Will not occur

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11. TOXICOLOGICAL INFORMATION

General Information: The information in this section includes the potential hazards of the individual ingredients and the formulated product .

Product Level Toxicity Data

<u>Acute toxicity</u>			
Species	Route	End Point	Dose (mg/kg)
Rat	Oral	LD 50	>40

<u>Irritation / Sensitization</u>		
Study Type	Species	Result
Eye Irritation	Rabbit	Negative

Ingredients:

Acute Toxicity: (Species, Route, End Point, Dose)

Boric acid
Rat Oral LD50 2500 mg/kg

Benzalkonium chloride
Rat Oral LD50 240 mg/kg

Sodium chloride
Rat Oral LD50 3000 mg/kg
Mouse Oral LD 50 4 g/kg

Tetrahydrozoline hydrochloride
Rat Oral LD50 785 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Boric acid
Skin Irritation Human Mild

Benzalkonium chloride
Skin Irritation Rabbit Moderate
Eye Irritation Rabbit Severe

Sodium chloride
Eye Irritation Rabbit Moderate
Skin Irritation Rabbit Mild

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Sodium chloride
10 Day(s) Rat Oral 12500 mg/kg LOAEL Kidney, Ureter, Bladder

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Boric acid
Prenatal & Postnatal Development Rat Oral 74 mg/kg/day NOAEL Developmental toxicity
Prenatal & Postnatal Development Rat Oral 55 mg/kg/day NOAEL Fetotoxicity
Reproductive & Fertility-Males Mouse Oral 4500 ppm LOAEL Fertility

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Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

EU Symbol: None required
EU Indication of danger: Not classified

OSHA Label:
None required
Non-hazardous in accordance with international standards for workplace safety.

Canada - WHMIS: Classifications

WHMIS hazard class:
None required
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Ingredients:

Tetrahydrozoline hydrochloride
EU EINECS List 208-329-3
Inventory - United States TSCA - Sect. 8(b) Listed

Edetate disodium

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EU EINECS List	205-358-3
Inventory - United States TSCA - Sect. 8(b)	Listed
Boric acid	
EU EINECS List	233-139-2
Inventory - United States TSCA - Sect. 8(b)	Listed
Sodium chloride	
EU EINECS List	231-598-3
Inventory - United States TSCA - Sect. 8(b)	Listed
Purified water	
EU EINECS List	231-791-2
Inventory - United States TSCA - Sect. 8(b)	Listed
Sodium borate	
Inventory - United States TSCA - Sect. 8(b)	Listed

16. OTHER INFORMATION

Reasons for Revision: Updated Section 2 - Composition / Information on Ingredients. Updated Section 3 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 15 - Regulatory Information.

Prepared by: Corporate Occupational Toxicology & Hazard Assessment

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without a warranty of any kind, expressed or implied.

End of Safety Data Sheet